

Safety Data Sheet

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Document group:	39-7298-1	Version number:	1.02
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SECTION 1: Identification

1.1. Product identifier

Bondo® Bumper Repair Kit Clamshell, 31589

Product Identification Numbers

34-8723-4426-1 60-4551-0338-6 UU-0102-4778-9

1.2. Recommended use and restrictions on use

Recommended use

Automotive

1.3. Supplier's details

Company: 3M Canada Company

Division: Construction and Home Improvement Markets

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577

E Mail:

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS) or Article Information Sheet (AIS) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

34-4427-0, 39-7256-9, 39-7264-3

Transport in accordance with applicable regulations.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE, COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the product is fit

Rondo®	Bumper	Renair	Kit C	lamshell.	31589

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 product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M Canada SDSs are available at www.3M.ca

Page: 2 of 2



Safety Data Sheet

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 34-4427-0
 Version number:
 4.02

 Issue Date:
 2022/05/31
 Supercedes Date:
 2020/10/14

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

3MTM Adhesion Promoter, PN 06396

Product Identification Numbers

LA-T100-2632-3 GBCDMS00106 44-0043-8879-7 70-0706-9843-9 FS-9100-4256-3

FS-9100-4269-6 FS-9100-4270-4 FS-9100-4271-2

1.2. Recommended use and restrictions on use

Intended Use

Automotive

Specific Use

Adhesion promoter absorbed on a sponge for use with attachment tapes

Restrictions on use

Not applicable

1.3. Supplier's details

Company: 3M Canada Company

Division: Automotive and Aerospace Solutions Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577 **Website:** www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 1B.

3MTM Adhesion Promoter, PN 06396

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3. Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms







Hazard statements

Highly flammable liquid and vapour.

Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May damage fertility or the unborn child. Suspected of causing cancer.

Causes damage to organs: sensory organs

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

May cause damage to organs through prolonged or repeated exposure: sensory organs

Precautionary statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

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

2.3. Other hazards

Dans. 2 of 10

None known.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

2% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Cyclohexane	110-82-7	30 - 60 Trade Secret *	Cyclohexane
Xylene	1330-20-7	15 - 40 Trade Secret *	Dimethylbenzene
Ethylbenzene	100-41-4	< 12	Benzene, ethyl-
Ethyl Alcohol	64-17-5	5 - 10	Ethanol
Acrylate polymer	Trade Secret	1 - 5	Not Applicable
Chlorinated Rubber	68609-36-9	1 - 5	2,5-Furandione, reaction products with
			polypropylene, chlorinated
Ethyl Acetate	141-78-6	1 - 5	Acetic acid ethyl ester
4,4'-isopropylidenediphenol-	25068-38-6	0.1 - 1 Trade Secret *	Phenol, 4,4'-(1-methylethylidene)bis-,
epichlorohydrin polymer			polymer with (chloromethyl)oxirane
BETA-(3,4-	3388-04-3	0.1 - 1 Trade Secret *	Silane, trimethoxy[2-(7-
EPOXYCYCLOHEXYL)ETHY			oxabicyclo[4.1.0]hept-3-yl)ethyl]-
LTRIMETHOXY SILANE			
Methyl Alcohol	67-56-1	< 0.5	Methanol
Toluene (impurity/side product)	108-88-3	0 - 0.3	No Data Available
Cumene	98-82-8	0 - 0.15	Benzene, (1-methylethyl)-
Naphthalene	91-20-3	< 0.04	Naphthalene
Maleic Anhydride	108-31-6	0 - 0.01	2,5-Furandione

Acrylate polymer is a non-hazardous Trade Secret material according to WHMIS criteria.

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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

^{*}The actual concentration of this ingredient has been withheld as a trade secret.

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>
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.

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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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.

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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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 oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) 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 oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	
Maleic Anhydride	108-31-6	ACGIH	TWA(inhalable fraction and	Dermal/Respiratory
-			vapor): 0.01 mg/m3	Sensitizer
Toluene (impurity/side product)	108-88-3	ACGIH	TWA:20 ppm	
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm	
Ethyl Acetate	141-78-6	ACGIH	TWA:400 ppm	
Ethyl Alcohol	64-17-5	ACGIH	STEL:1000 ppm	
Methyl Alcohol	67-56-1	ACGIH	TWA:200 ppm;STEL:250 ppm	Danger of cutaneous
				absorption
Naphthalene	91-20-3	ACGIH	TWA:10 ppm	Danger of cutaneous
				absorption
Cumene	98-82-8	ACGIH	TWA:5 ppm	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

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 vapours and particulates Organic vapor respirators may have short service life.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid		
· ·	*		
Specific Physical Form:	Sponge holding approximately 2 milliliters of liquid.		
Colour	Yellow		
Odour	Solvent		
Odour threshold	No Data Available		
рН	4.4 - 5 [Test Method: Tested per ASTM protocol]		
	[Details:@23°C]		
Melting point/Freezing point	Not Applicable		
Boiling point	73.1 °C [Test Method:Tested per ASTM protocol]		
	[Details:@760mmHg]		
Flash Point	1.1 °C [Test Method:Setaflash		
Evaporation rate	6.4 [Test Method: Estimated] [Ref Std: XYLENE=1]		
Flammability (solid, gas)	Not Applicable		
Flammable Limits(LEL)	1 % [Test Method: Estimated]		
Flammable Limits(UEL)	6 % [Test Method: Estimated]		
Vapour Pressure	11,092.4 Pa [@ 20 °C] [Test Method: Tested per ASTM protocol]		
Vapour Density and/or Relative Vapour Density	1.7 [Test Method:Estimated] [Ref Std:AIR=1]		
Density	0.82 g/ml		
Relative density	0.82 [Ref Std:WATER=1]		
Water solubility	10 %		
Solubility- non-water	No Data Available		
Partition coefficient: n-octanol/ water	No Data Available		
Autoignition temperature	430 °C		
Decomposition temperature	No Data Available		
Viscosity/Kinematic Viscosity	<= 25 mPa-s		
Volatile Organic Compounds	<=781 g/l [Test Method:calculated SCAQMD rule 443.1]		
	[Details: Calculated]		
Percent volatile	Approximately 95 %		
VOC Less H2O & Exempt Solvents	<=781 g/l [Test Method:calculated SCAQMD rule 443.1]		
	[Details: Calculated]		
Molecular weight	Not Applicable		

Page: 6 of 18

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 polymerization will not occur.

10.4. Conditions to avoid

Heat

Sparks and/or flames

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

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 labeling, 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:

May be harmful if inhaled. 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:

May be harmful in contact with skin. Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eve Contact:

Severe Eve 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 diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. 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:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or 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.

Ingredient	CAS No.	Class Description	Regulation
Coal gasification	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Coke production	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Soot (as found in occupational exposure of chimney sweeps)	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Soots	91-20-3	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Cumene	98-82-8	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Cumene	98-82-8	Anticipated human carcinogen	National Toxicology Program Carcinogens
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Naphthalene	91-20-3	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Naphthalene	91-20-3	Anticipated human carcinogen	National Toxicology Program Carcinogens

Additional Information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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 >2,000 - =5,000
r			mg/kg
Overall product	Inhalation-		No data available; calculated ATE >20 - =50 mg/l
•	Vapor(4 hr)		,
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l
	Vapor (4		
	hours)		
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation-	Rat	LC50 29 mg/l
•	Vapor (4		
	hours)		
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-	Rat	LC50 17.4 mg/l

Page: 8 of 18

Hours Hours Ethyl Alcohol Dermal Rat LD50 47,69 mg/kg		Vapor (4		
Ethyl Alcohol				
Ethyl Alcohol	Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Vapor (4 hours) Ethyl Alcohol Ingestion Rat LD50 17,800 mg/kg	Ethyl Alcohol	Dermal	Rabbit	
Hours Hours High Alcohol Ingestion Rabbit LD50 17,800 mg/kg	Ethyl Alcohol	Inhalation-	Rat	LC50 124.7 mg/l
Ethyl Acetate				
Ethyl Acetate				
Ethyl Acetate				
Vapor (4 hours)	. 9			
hours hours ligestion Rat LD50 5,620 mg/kg LD50 -1,000 mg/kg log	Ethyl Acetate		Rat	LC50 70.5 mg/l
Ethyl Acetate				
Dermal Guinea Dermal	Ethyl Acetate		Dat	LD50 5 620 mg/kg
Dermal Dermal LD50 > 3,200 mg/kg				
Chlorinated Rubber Ingestion Rat LD50 > 3,200 mg/kg Methyl Alcohol Dermal LD50 estimated to be 1,000 - 2,000 mg/kg Methyl Alcohol Inhalation-Vapor LC50 estimated to be 10 - 20 mg/l Methyl Alcohol Ingestion LD50 estimated to be 50 - 300 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Dermal Rabbit LD50 6,700 mg/kg 3HANE LD50 1,600 mg/kg LD50 1,600 mg/kg 4,4'-isopropylidenediphenol-epichlorohydrin polymer Ingestion Rat LD50 1,000 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Inhalation-Vapor (4 hours) Rat LD50 13,100 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Ingestion Rat LD50 12,000 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Ingestion Rat LD50 12,000 mg/kg SILANE Dermal Rat LD50 12,000 mg/kg Toluene (impurity/side product) Inhalation-Vapor (4 hours) Rat LD50 12,000 mg/kg Toluene (impurity/side product) Ingestion Rat LD50 5,550 mg/kg Cumene Inhalation-Vapor (4 hours) Rat LD50 3,160 mg	Chiofinated Rubbei	Definal		LD30 > 1,000 Hig/kg
Methyl Alcohol Dermal LD50 estimated to be 1,000 - 2,000 mg/kg Methyl Alcohol Inhalation-Vapor LC50 estimated to be 10 - 20 mg/l Methyl Alcohol Ingestion LD50 estimated to be 50 - 300 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Dermal Rabbit LD50 6,700 mg/kg 4,4'-isopropylidenediphenol-epichlorohydrin polymer Dermal Rat LD50 > 1,600 mg/kg 4,4'-isopropylidenediphenol-epichlorohydrin polymer Ingestion Rat LD50 > 1,000 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Inhalation-Vapor (4 hours) Rat LD50 13,100 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Ingestion Rat LD50 13,100 mg/kg Toluene (impurity/side product) Dermal Rat LD50 13,100 mg/kg Toluene (impurity/side product) Inhalation-Vapor (4 hours) Rat LD50 3,500 mg/kg Toluene (impurity/side product) Ingestion Rat LD50 3,94 mg/l Cumene Dermal Rabbit LD50 3,94 mg/l Cumene Inhalation-Vapor (4 hours) Rat LD50 3,400 mg/kg Naphthalene Inh	Chlorinated Rubber	Ingestion		LD50 > 3 200 mg/kg
Methyl Alcohol Inhalation-Vapor LC50 estimated to be 10 - 20 mg/l Methyl Alcohol Ingestion LD50 estimated to be 50 - 300 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Dermal Rabbit LD50 6,700 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Ingestion Rat LD50 > 1,600 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Inhalation-Vapor (4 hours) Rat LD50 > 13,100 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Ingestion Rat LD50 13,100 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Ingestion Rat LD50 13,100 mg/kg Toluene (impurity/side product) Dermal Rat LD50 13,100 mg/kg Toluene (impurity/side product) Inhalation-Vapor (4 hours) Rat LC50 30 mg/l Toluene (impurity/side product) Ingestion Rat LD50 5,550 mg/kg Cumene Dermal Rabbit LD50 5,550 mg/kg Cumene Inhalation-Vapor (4 hours) Rat LC50 39,4 mg/l Cumene Ingestion Rat LD50 5,550 mg/kg Naphthalene I			1.00	LD50 estimated to be 1.000 - 2.000 mg/kg
Methyl Alcohol Ingestion LD50 estimated to be 50 - 300 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Dermal Rabbit LD50 6,700 mg/kg 4,4'-isopropylidenediphenol-epichlorohydrin polymer Dermal Rat LD50 > 1,600 mg/kg 4,4'-isopropylidenediphenol-epichlorohydrin polymer Ingestion Rat LD50 > 1,000 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Inhalation-vapor (4 hours) Rat LC50 > 7 mg/l BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Ingestion Rat LD50 13,100 mg/kg BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY Ingestion Rat LD50 12,000 mg/kg SILANE Dermal Rat LD50 12,000 mg/kg Toluene (impurity/side product) Dermal Rat LC50 30 mg/l Toluene (impurity/side product) Ingestion Rat LD50 5,550 mg/kg Cumene Dermal Rabbit LD50 5,550 mg/kg Cumene Inhalation-vapor (hours) Rat LC50 39.4 mg/l Cumene Ingestion Rat LD50 400 mg/kg Naphthalene Inhalation-vapor Inha	•	Inhalation-		
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE 4,4'-isopropylidenediphenol-epichlorohydrin polymer 4,4'-isopropylidenediphenol-epichlorohydrin polymer Ingestion BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Rat LD50	Mediyi Aiconoi			Less estimated to be 10 - 20 mg/1
SILANE	Methyl Alcohol	Ingestion		LD50 estimated to be 50 - 300 mg/kg
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SILANE	Dermal	Rabbit	LD50 6,700 mg/kg
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Toluene (impurity/side product) Ingestion Rat LD50 12,000 mg/kg LC50 30 mg/l		Dermal	Rat	
SILANE Vapor (4 hours) Vapor (4 hours) Vapor (4 hours) Vapor (4 hours) Vapor (As possible product) Rat LD50 13,100 mg/kg 13,100 mg/kg Vapor (As possible product) Vapor (4 hours) Rat LD50 5,550 mg/kg S,550 mg/kg Vapor (4 hours) Vapor (4 hour			Rat	LD50 > 1,000 mg/kg
hours hours Rat LD50 13,100 mg/kg			Rat	LC50 > 7 mg/l
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE Toluene (impurity/side product) Ingestion Rat LD50 13,100 mg/kg LC50 30 mg/l LC50 30 mg/l LD50 5,550 mg/kg LD50 3,160 mg/kg LC50 39.4 mg/l LC50 39.4 mg/l LC50 39.4 mg/l LC50 stimated to be 2,000 - 5,000 mg/kg Naphthalene Naphthalene Naphthalene Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Ingestion Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Ingestion Naphthalene Ingestion Ingestion Indextion Vapor Naphthalene Ingestion Ingestion Ingestion Indextion Vapor Naphthalene Ingestion Ingest	SILANE			
SILANÉ Toluene (impurity/side product) Ingestion Rat LD50 5,550 mg/kg LD50 3,160 mg/kg LC50 39.4 mg/l LC50 39.4 mg/l LC50 39.4 mg/l Rat LD50 1,400 mg/kg Naphthalene Nap	DETA (A A EDOVAÇÃO OUEVA) ETHAL TRIB (ETHALA)		l D	I D50 12 100 //
Toluene (impurity/side product) Inhalation- Vapor (4 hours) Toluene (impurity/side product) Ingestion Rat LD50 5,550 mg/kg LD50 5,550 mg/kg LD50 3,160 mg/kg LC50 39.4 mg/l LC50 stimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation- Vapor Naphthalene Inhalation- Vapor Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Naphthalene Ingestion Rat LC50 stimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 stimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg	SILANE	Ingestion		
Vapor (4 hours) Vapor (4 hours) Vapor (4 hours) Vapor (Asterior (Asteri				
Industry Ingestion Rat LD50 5,550 mg/kg Cumene Dermal Rabbit LD50 3,160 mg/kg Cumene Inhalation-Vapor (4 hours) Rat LC50 39.4 mg/l Cumene Ingestion Rat LD50 1,400 mg/kg Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor Human LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg	Toluene (impurity/side product)		Rat	LC50 30 mg/l
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
CumeneDermalRabbit $LD50 > 3,160 \text{ mg/kg}$ CumeneInhalation-Vapor (4 hours)Rat $LC50 39.4 \text{ mg/l}$ CumeneIngestionRat $LD50 1,400 \text{ mg/kg}$ NaphthaleneDermalHuman $LD50 \text{ estimated to be } 2,000 - 5,000 \text{ mg/kg}$ NaphthaleneInhalation-VaporHuman $LC50 \text{ estimated to be } 20 - 50 \text{ mg/l}$ NaphthaleneIngestionHuman $LD50 \text{ estimated to be } 300 - 2,000 \text{ mg/kg}$ Maleic AnhydrideDermalRabbit $LD50 \text{ estimated to be } 300 - 2,000 \text{ mg/kg}$ Maleic AnhydrideIngestionRat $LD50 \text{ estimated to be } 300 - 2,000 \text{ mg/kg}$			D.	1.050 5.550 //
Cumene Inhalation-Vapor (4 hours) Rat LC50 39.4 mg/l Cumene Ingestion Rat LD50 1,400 mg/kg Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor Human LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg				
Cumene Ingestion Rat LD50 1,400 mg/kg Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor Human LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg				
Cumene Ingestion Rat LD50 1,400 mg/kg Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor Human LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg	Cumene		Rat	LC30 37.4 IIIg/1
Cumene Ingestion Rat LD50 1,400 mg/kg Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg				
Naphthalene Dermal Human LD50 estimated to be 2,000 - 5,000 mg/kg Naphthalene Inhalation-Vapor LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rat LD50 estimated to be 300 - 2,000 mg/kg	Cumene		Rat	LD50 1,400 mg/kg
Naphthalene Inhalation-Vapor Human LC50 estimated to be 20 - 50 mg/l Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg	Naphthalene			
Vapor Vapor Naphthalene Ingestion Human LD50 estimated to be 300 - 2,000 mg/kg Maleic Anhydride Dermal Rabbit LD50 2,620 mg/kg Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg		Inhalation-	Human	
Maleic AnhydrideDermalRabbitLD502,620 mg/kgMaleic AnhydrideIngestionRatLD501,030 mg/kg	•			_
Maleic Anhydride Ingestion Rat LD50 1,030 mg/kg				
	······ y ······			
	Maleic Anhydride	Ingestion	Rat	LD50 1,030 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Cyclohexane	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Mild irritant
Ethyl Alcohol	Rabbit	No significant irritation
Ethyl Acetate	Rabbit	Minimal irritation
Chlorinated Rubber	Guinea	No significant irritation
	pig	
Methyl Alcohol	Rabbit	Mild irritant
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Rabbit	Mild irritant
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	Minimal irritation
Toluene (impurity/side product)	Rabbit	Irritant
Cumene	Rabbit	Minimal irritation
Naphthalene	Rabbit	Minimal irritation
Maleic Anhydride	Human	Corrosive
	and	

Page: 9 of 18

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Serious Eye Damage/Irritation

Name	Species	Value
Cyclohexane	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
Ethyl Alcohol	Rabbit	Severe irritant
Ethyl Acetate	Rabbit	Mild irritant
Chlorinated Rubber	Professio	Mild irritant
	nal	
	judgeme	
	nt	
Methyl Alcohol	Rabbit	Moderate irritant
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Rabbit	Moderate irritant
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	No significant irritation
Toluene (impurity/side product)	Rabbit	Moderate irritant
Cumene	Rabbit	Mild irritant
Naphthalene	Rabbit	No significant irritation
Maleic Anhydride	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
	 	
Ethylbenzene	Human	Not classified
Ethyl Alcohol	Human	Not classified
Ethyl Acetate	Guinea	Not classified
	pig	
Methyl Alcohol	Guinea	Not classified
	pig	
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Human	Sensitizing
	and	
	animal	
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	similar	Sensitizing
	compoun	
	ds	
Toluene (impurity/side product)	Guinea	Not classified
	pig	
Cumene	Guinea	Not classified
	pig	
Maleic Anhydride	Multiple	Sensitizing
	animal	
	species	

Respiratory Sensitization

respiratory sensitization		
Name	Species	Value
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Human	Not classified
Maleic Anhydride	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value		
Cyclohexane	In Vitro	Not mutagenic		
Cyclohexane	In vivo	Some positive data exist, but the data are not sufficient for classification		
Xylene	In Vitro	Not mutagenic		
Xylene	In vivo	Not mutagenic		
Ethylbenzene	In vivo	Not mutagenic		
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Ethyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Ethyl Alcohol	In vivo	Some positive data exist, but the data are not		

Page: 10 of 18

		sufficient for classification
Ethyl Acetate	In Vitro	Not mutagenic
Ethyl Acetate	In vivo	Not mutagenic
Methyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methyl Alcohol	In vivo	Some positive data exist, but the data are not sufficient for classification
4,4'-isopropylidenediphenol-epichlorohydrin polymer	In vivo	Not mutagenic
4,4'-isopropylidenediphenol-epichlorohydrin polymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	In Vitro	Some positive data exist, but the data are not sufficient for classification
Toluene (impurity/side product)	In Vitro	Not mutagenic
Toluene (impurity/side product)	In vivo	Not mutagenic
Cumene	In Vitro	Not mutagenic
Cumene	In vivo	Not mutagenic
Maleic Anhydride	In vivo	Not mutagenic
Maleic Anhydride	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal species	Not carcinogenic
Xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic
Ethyl Alcohol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Methyl Alcohol	Inhalation	Multiple animal species	Not carcinogenic
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Toluene (impurity/side product)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Toluene (impurity/side product)	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Toluene (impurity/side product)	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Cumene	Inhalation	Multiple animal species	Carcinogenic
Naphthalene	Inhalation	Multiple animal species	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
Xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not	occupational

				available	exposure
Xylene	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesi s
Xylene	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
Ethyl Alcohol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethyl Alcohol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Methyl Alcohol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,600 mg/kg/day	21 days
Methyl Alcohol	Ingestion	Toxic to development	Mouse	LOAEL 4,000 mg/kg/day	during organogenesi s
Methyl Alcohol	Inhalation	Toxic to development	Mouse	NOAEL 1.3 mg/l	during organogenesi s
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesi s
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
BETA-(3,4- EPOXYCYCLOHEXYL)ETHYLTRIMET HOXY SILANE	Ingestion	Not classified for development	Rabbit	NOAEL 0.27 mg/kg/day	during organogenesi s
Toluene (impurity/side product)	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
Toluene (impurity/side product)	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
Toluene (impurity/side product)	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
Toluene (impurity/side product)	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse
Cumene	Inhalation	Not classified for development	Rabbit	NOAEL 11.3 mg/l	during organogenesi s
Maleic Anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
Maleic Anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
Maleic Anhydride	Ingestion	Not classified for development	Rat	NOAEL 140 mg/kg/day	during organogenesi s

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

speeme runger organ	beene ranger organ romerty single exposure								
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration			
Cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and	NOAEL Not available				

				anima1	1	
Cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	animal Human and animal	NOAEL Not available	
Cyclohexane	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
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	
Ethyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethyl Alcohol	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethyl Alcohol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethyl Alcohol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Ethyl Acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethyl Acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Ethyl Acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Methyl Alcohol	Inhalation	blindness	Causes damage to organs	Human	NOAEL Not available	occupational exposure
Methyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
Methyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 hours
Methyl Alcohol	Ingestion	blindness	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Methyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Toluene (impurity/side product)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Toluene (impurity/side product)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Toluene (impurity/side product)	Inhalation	immune system	Not classified	Mouse	NOAEL 0.004 mg/l	3 hours
Toluene (impurity/side product)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse

Page: 13 of 18

Cumene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Cumene	Inhalation	respiratory irritation	May cause respiratory irritation	Human	LOAEL 0.2 mg/l	occupational exposure
Cumene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Naphthalene	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Maleic Anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
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
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

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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	nzene Inhalation bone, teeth, nails, and/or hair muscles Not classified		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
Ethyl Alcohol			Rabbit	LOAEL 124 mg/l	365 days	
Ethyl Alcohol	Inhalation	hematopoietic system immune system	tic Not classified I		NOAEL 25 mg/l	14 days
Ethyl Alcohol	Alcohol Ingestion liver Some positive data exist, but the data are not sufficient for classification		Rat	LOAEL 8,000 mg/kg/day	4 months	
Ethyl Alcohol			Dog	NOAEL 3,000 mg/kg/day	7 days	
Ethyl Acetate	nyl Acetate Inhalation endocrine system Not classified liver nervous system		Rat	NOAEL 0.043 mg/l	90 days	
Ethyl Acetate			Rabbit	LOAEL 16 mg/l	40 days	
Ethyl Acetate	Ingestion	hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 3,600 mg/kg/day	90 days
Methyl Alcohol	Inhalation	liver	Not classified	Rat	NOAEL 6.55 mg/l	4 weeks
Methyl Alcohol	Inhalation	respiratory system	Not classified	Rat	NOAEL 13.1 mg/l	6 weeks
Methyl Alcohol	Ingestion	liver nervous system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
4,4'- isopropylidenediphenol- epichlorohydrin polymer	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'- isopropylidenediphenol- epichlorohydrin polymer	Dermal nervous system Not classified		Rat	NOAEL 1,000 mg/kg/day	13 weeks	
4,4'- isopropylidenediphenol- epichlorohydrin polymer	system hematopoietic system liver eyes kidney and/or bladder		Rat	NOAEL 1,000 mg/kg/day	28 days	
Toluene (impurity/side product)	Inhalation	auditory system eyes olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene (impurity/side product)	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene (impurity/side product)	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2.3 mg/l	15 months
Toluene (impurity/side product)	Inhalation	heart liver kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
Toluene (impurity/side product)	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.1 mg/l	4 weeks

Page: 15 of 18

Toluene (impurity/side product)	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
Toluene (impurity/side product)	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
Toluene (impurity/side product)	Inhalation	hematopoietic system vascular system	Not classified	Human	NOAEL Not available	occupational exposure
Toluene (impurity/side product)	Inhalation	gastrointestinal tract	tinal tract Not classified Page 1		NOAEL 11.3 mg/l	15 weeks
Toluene (impurity/side product)	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
Toluene (impurity/side product)	Ingestion	heart	art Not classified R		NOAEL 2,500 mg/kg/day	13 weeks
Toluene (impurity/side product)	Ingestion	liver kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
Toluene (impurity/side product)	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days
Toluene (impurity/side product)	Ingestion	endocrine system	Not classified	Mouse	NOAEL 105 mg/kg/day	28 days
Toluene (impurity/side product)	Ingestion	immune system	Not classified	Mouse	NOAEL 105 mg/kg/day	4 weeks
Cumene	Inhalation	auditory system endocrine system hematopoietic system liver nervous system eyes	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4.9 mg/l	13 weeks
Cumene	Inhalation	respiratory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Ingestion	kidney and/or bladder heart endocrine system hematopoietic system liver respiratory system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Naphthalene	Dermal	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Dermal	eyes	Not classified	Human	NOAEL Not available	occupational exposure
Naphthalene	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.01 mg/l	13 weeks
Naphthalene	Inhalation	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Inhalation	eyes	Not classified	Human	NOAEL Not available	occupational exposure
Naphthalene	Ingestion	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Ingestion	eyes	May cause damage to organs though prolonged or repeated exposure	Rabbit	LOAEL 500 mg/kg/day	15 days
Maleic Anhydride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
Maleic Anhydride	Inhalation	endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
Maleic Anhydride	Ingestion	liver	Some positive data exist, but the	Rat	LOAEL 250	183 days

Page: 16 of 18

			data are not sufficient for classification		mg/kg/day	
Maleic Anhydride	Ingestion	heart nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
Maleic Anhydride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
Maleic Anhydride	Ingestion	skin endocrine system immune system eyes respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

Aspiration Hazard

Name	Value	
Cyclohexane	Aspiration hazard	
Xylene	Aspiration hazard	
Ethylbenzene	Aspiration hazard	
Toluene (impurity/side product)	Aspiration hazard	
Cumene	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

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. 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.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Page: 18 of 18



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

Bondo® Bumper Filler (for Bondo® Bumper Repair Kit, 31589)

Product Identification Numbers

LB-K100-2632-8 41-1701-0087-3

1.2. Recommended use and restrictions on use

Intended Use

Automotive

Restrictions on use

Not applicable

1.3. Supplier's details

Company: 3M Canada Company

Division: Construction and Home Improvement Markets

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577 **Website:** www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2B.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1. Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 3. Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard

Pictograms





Hazard statements

Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer.

Causes damage to organs through prolonged or repeated exposure: nervous system respiratory system | skin |

Precautionary statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

2.3. Other hazards

None known.

89% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
4,4'-Isopropylidenediphenol-	25068-38-6	30 - 60 Trade Secret *	Phenol, 4,4'-(1-methylethylidene)bis-,
Epichlorohydrin Polymer			polymer with (chloromethyl)oxirane
Limestone	1317-65-3	10 - 30	Limestonests primarily of calcium

			carbonate.
Talc	14807-96-6	10 - 30 Trade Secret *	Talc (Mg3H2(SiO3)4)
1,2,3-Propanetriyl Ester Of 12-	74398-71-3	5 - 13 Trade Secret *	9-Octadecenoic acid, 12-
(Oxiranylmethoxy)-9-			(oxiranylmethoxy)-, 1,2,3-propanetriyl
Octadecenoic Acid			ester, homopolymer
Oxide Glass Chemicals	65997-17-3	1 - 10	Glass, oxide, chemicals
Filler	Mixture	< 3	Not Applicable
Stearic Acid	57-11-4	< 1.5	Octadecanoic acid
Quartz Silica	14808-60-7	0.017 - 0.2	Quartz (SiO2)

Filler is a non-hazardous Trade Secret material according to WHMIS criteria.

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:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

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

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance
Aldehydes
Carbon monoxide
Carbon dioxide
Hydrogen Chloride

5.3. Special protective actions for fire-fighters

Condition

During Combustion

During Combustion

During Combustion

During Combustion

^{*}The actual concentration of this ingredient has been withheld as a trade secret.

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants. bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

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

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	C.A.S. No.	Agency	Limit type	Additional Comments
Particles (insoluble or poorly soluble) not otherwise specified,	1317-65-3	ACGIH	TWA(inhalable particulates):10 mg/m3	
inhalable particles				
Particles (insoluble or poorly soluble) not otherwise specified,	1317-65-3	ACGIH	TWA(respirable particles):3	
respirable particles			mg/m3	
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2	
			mg/m3	
Quartz Silica	14808-60-7	ACGIH	TWA(respirable	
			fraction):0.025 mg/m3	
STEARATES	57-11-4	ACGIH	TWA(respirable fraction):3	
			mg/m3;TWA(inhalable	
			fraction):10 mg/m3	
CERAMIC FIBERS	65997-17-3	ACGIH	TWA(as fiber):0.2 fiber/cc	
Continuous filament glass fibers	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	
Continuous filament glass fibers,	65997-17-3	ACGIH	TWA(inhalable fraction):5	

inhalable fraction			mg/m3	
Glass wool fibers	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	
Oxide Glass Chemicals	65997-17-3	Manufacturer	TWA(as non-fibrous,	
		determined	respirable)(8 hours):3	
			mg/m3;TWA(as non-fibrous,	
			inhalable fraction)(8 hours):10	
			mg/m3	
Rock wool fibers	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	
Slag wool fibers	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	
Special purpose glass fibers	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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

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 vapours and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid			
Specific Physical Form:	Paste			
Colour	Black			
Odour	Little Odour			
Odour threshold	No Data Available			
рН	Not Applicable			
Melting point/Freezing point	No Data Available			
Boiling point	Not Applicable			
Flash Point	248.3 °C [Test Method: Estimated]			
Evaporation rate	No Data Available			
Flammability (solid, gas)	Not Classified			
Flammable Limits(LEL)	Not Applicable			
Flammable Limits(UEL)	Not Applicable			
Vapour Pressure	No Data Available			
Vapour Density and/or Relative Vapour Density	No Data Available			
Density	1 - 1.5 g/ml			
Relative density	1 - 1.5 [<i>Ref Std</i> :WATER=1]			
Water solubility	Nil			
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	40 - 110 Saybolt Universal Second [Details: Pressflow Viscosity]			
Volatile Organic Compounds	1 g/l [Test Method:calculated SCAQMD rule 443.1]			
Volatile Organic Compounds	0.1 % weight [Test Method:calculated per CARB title 2]			
Percent volatile	0.1 % weight			
VOC Less H2O & Exempt Solvents	1 g/l [Test Method:calculated SCAQMD rule 443.1]			
Molecular weight	No Data Available			

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 polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong acids

10.6. Hazardous decomposition products

SubstanceConditionPhosgeneNot SpecifiedToxic Vapor, Gas, ParticulateNot Specified

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 labeling, 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.

Eve Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate. Dermal Effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
Talc-based body powder (perineal use of)	14807-96-6	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Special-purpose fibres such as E-glass and '475' glass fibres	65997-17-3	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Ceramic Fibers (Respirable Size)	65997-17-3	Anticipated human carcinogen	National Toxicology Program Carcinogens
Refractory ceramic fibres	65997-17-3	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Talc containing asbestiform fibres	14807-96-6	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Glass Wool Fibers (Inhalable), Certain	65997-17-3	Anticipated human carcinogen	National Toxicology Program Carcinogens
Silica dust, crystalline, in the form of quartz or cristobalite	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on 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
--	------	-------	---------	-------

Page: 7 of 12

Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Limestone	Dermal	Rat	LD50 > 2,000 mg/kg
Limestone	Inhalation- Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Limestone	Ingestion	Rat	LD50 6,450 mg/kg
1,2,3-Propanetriyl Ester Of 12-(Oxiranylmethoxy)-9- Octadecenoic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
1,2,3-Propanetriyl Ester Of 12-(Oxiranylmethoxy)-9- Octadecenoic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Oxide Glass Chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg
Oxide Glass Chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
Filler	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Filler	Ingestion	Rat	LD50 > 5,110 mg/kg
Stearic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Stearic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Rabbit	Mild irritant
Talc	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Oxide Glass Chemicals	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Filler	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation
Quartz Silica	Professio	No significant irritation
	nal	
	judgeme	
	nt	

Serious Eye Damage/Irritation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Rabbit	Moderate irritant
Talc	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Oxide Glass Chemicals	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Filler	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation

Skin Sensitization

Name	Species Value

Page: 8 of 12

Bondo® Bumper Filler (for Bondo® Bumper Repair Kit, 31589)

4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Human	Sensitizing
	and	
	animal	
Filler	Human	Not classified
	and	
	animal	

Respiratory Sensitization

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Human	Not classified
Talc	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	In vivo	Not mutagenic
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Oxide Glass Chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Filler	In Vitro	Not mutagenic
Stearic Acid	In Vitro	Not mutagenic
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Oxide Glass Chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Filler	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Stearic Acid	Ingestion	Rat	Not carcinogenic
Quartz Silica	Inhalation	Human and animal	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesi s
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625	premating &

				mg/kg/day	during
					gestation
Filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509	1 generation
				mg/kg/day	
Filler	Ingestion	Not classified for male reproduction	Rat	NOAEL 497	1 generation
				mg/kg/day	
Filler	Ingestion	Not classified for development	Rat	NOAEL 1,350	during
		-		mg/kg/day	organogenesi
					S

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Stearic Acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis respiratory system	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Oxide Glass Chemicals	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Filler	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Stearic Acid	Ingestion	blood	Not classified	Rat	NOAEL Not available	6 weeks
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

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

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

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Health: 2 Flammability: 1 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Page: 11 of 12

PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE, COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 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 product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M Canada SDSs are available at www.3M.ca

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Safety Data Sheet

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 39-7256-9
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 2022/11/11
 Supercedes Date:
 2022/08/12

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

Bondo® Bumper Hardener (for Bondo® Bumper Repair Kit, 31589)

Product Identification Numbers

LB-K100-2632-7 41-1701-0086-5

1.2. Recommended use and restrictions on use

Intended Use

Automotive

Restrictions on use

Not applicable

1.3. Supplier's details

Company: 3M Canada Company

Division: Construction and Home Improvement Markets

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577 **Website:** www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1B. Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion Exclamation mark | Health Hazard |





Hazard statements

Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May cause cancer.

Causes damage to organs through prolonged or repeated exposure: respiratory system

Precautionary statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. Immediately call a POISON CENTRE or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

Storage:

Store locked up.

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

2.3. Other hazards

None known.

99% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Poly[oxy(methyl-1,2-	72244-98-5	45 - 70 Trade Secret *	Poly[oxy(methyl-1,2-ethanediyl)], .alpha
ethanediyl)], .alpha			hydroomegahydroxy-, ether with 2,2-
hydroomegahydroxy-, ether			bis(hydroxymethyl)-1,3-propanediol (4:1),
with 2,2-bis(hydroxymethyl)-			2-hydroxy-3-mercaptopropyl ether
1,3-propanediol (4:1), 2-			

hydroxy-3-mercaptopropyl ether			
Limestone	1317-65-3	10 - 30	Limestonests primarily of calcium
			carbonate.
Talc	14807-96-6	7 - 30 Trade Secret *	Talc (Mg3H2(SiO3)4)
Oxide Glass Chemicals	65997-17-3	1 - 10	Glass, oxide, chemicals
Tris(2,4,6-	90-72-2	0.5 - 5 Trade Secret *	Phenol, 2,4,6-tris[(dimethylamino)methyl]-
dimethylaminomonomethyl)phe			
nol			
Siloxanes and Silicones, di-Me,	67762-90-7	0.1 - 1	Siloxanes and Silicones, di-Me, reaction
reaction products with silica			products with silica
Titanium Dioxide	13463-67-7	< 1.0	Titanium oxide (TiO2)
Quartz Silica	14808-60-7	0.005 - 0.15	Quartz (SiO2)

^{*}The actual concentration of this ingredient has been withheld as a trade secret.

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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

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

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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 ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<u>Substance</u>	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	During Combustion
Toxic Vapor, Gas, Particulate	During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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.

6.3. Methods and material for containment and cleaning up

Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Titanium Dioxide	13463-67-7	ACGIH	TWA:10 mg/m3	
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2	
			mg/m3	
Quartz Silica	14808-60-7	ACGIH	TWA(respirable	
			fraction):0.025 mg/m3	
Oxide Glass Chemicals	65997-17-3	Manufacturer	TWA(as non-fibrous,	
		determined	respirable)(8 hours):3	
			mg/m3;TWA(as non-fibrous,	
			inhalable fraction)(8 hours):10	
			mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

AIHA: American Industrial Hygiene Association

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

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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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:

Full Face Shield

Indirect Vented Goggles

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 vapours and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid	
Specific Physical Form:	Paste	
Colour	Off-White	
Odour	Strong Mercaptan	
Odour threshold	No Data Available	
pH	Not Applicable	
Melting point/Freezing point	No Data Available	
Boiling point	Not Applicable	
Flash Point	245.6 °C	
Evaporation rate	No Data Available	
Flammability (solid, gas)	Not Classified	
Flammable Limits(LEL)	Not Applicable	
Flammable Limits(UEL)	Not Applicable	
Vapour Pressure	No Data Available	

Vapour Density and/or Relative Vapour Density	No Data Available		
Density	1.1 - 1.1 kg/l		
Relative density	1.078 - 1.09 [<i>Ref Std</i> :WATER=1]		
Water solubility	No Data Available		
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	100 - 150 Saybolt Universal Second [Details: Pressflow		
	Viscosity]		
Volatile Organic Compounds	1 g/l [Test Method:calculated SCAQMD rule 443.1]		
Volatile Organic Compounds	0.1 % weight [Test Method:calculated per CARB title 2]		
Percent volatile	0.1 % weight		
VOC Less H2O & Exempt Solvents 1 g/l [Test Method: calculated SCAQMD rule 443.1]			
Molecular weight No Data Available			

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Substance
None known.

Condition

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 labeling, 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.

Eve Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
Ceramic Fibers (Respirable Size)	65997-17-3	Anticipated human carcinogen	National Toxicology Program Carcinogens
Refractory ceramic fibres	65997-17-3	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Talc containing asbestiform fibres	14807-96-6	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Glass Wool Fibers (Inhalable), Certain	65997-17-3	Anticipated human carcinogen	National Toxicology Program Carcinogens
Silica dust, crystalline, in the form of quartz or cristobalite	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on 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- Dust/Mist(4 hr)		No data available; calculated ATE >5 - =12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	Dermal	Rabbit	LD50 > 10,200 mg/kg
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	Ingestion	Rat	LD50 2,600 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Limestone	Dermal	Rat	LD50 > 2,000 mg/kg
Limestone	Inhalation- Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Limestone	Ingestion	Rat	LD50 6,450 mg/kg
Oxide Glass Chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg

Bondo® Bumper Hardener (for Bondo® Bumper Repair Kit, 31589)

Oxide Glass Chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Tris(2,4,6-dimethylaminomonomethyl)phenol	Dermal	Rat	LD50 1,280 mg/kg
Tris(2,4,6-dimethylaminomonomethyl)phenol	Ingestion	Rat	LD50 1,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Oxide Glass Chemicals	Professio nal judgeme nt	No significant irritation
Tris(2,4,6-dimethylaminomonomethyl)phenol	Rabbit	Corrosive
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
Quartz Silica	Professio nal judgeme nt	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with	Rabbit	Mild irritant
2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl		
ether		
Talc	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Oxide Glass Chemicals	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Tris(2,4,6-dimethylaminomonomethyl)phenol	Rabbit	Corrosive
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with	Mouse	Sensitizing
2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl		
ether		
Tris(2,4,6-dimethylaminomonomethyl)phenol	Guinea	Not classified
	pig	
Siloxanes and Silicones, di-Me, reaction products with silica	Human	Not classified
	and	
	animal	
Titanium Dioxide	Human	Not classified

Bondo® Bumper Hardener (for Bondo® Bumper Repair Kit, 31589)

an	and animal
----	---------------

Respiratory Sensitization

Name	Species	Value
Talc	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	In Vitro	Not mutagenic
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Oxide Glass Chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Tris(2,4,6-dimethylaminomonomethyl)phenol	In Vitro	Not mutagenic
Siloxanes and Silicones, di-Me, reaction products with silica	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In vivo	Not mutagenic
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Oxide Glass Chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Siloxanes and Silicones, di-Me, reaction products with silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Titanium Dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium Dioxide	Inhalation	Rat	Carcinogenic
Quartz Silica	Inhalation	Human and animal	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Tris(2,4,6-dimethylaminomonomethyl)phenol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Poly[oxy(methyl-1,2- ethanediyl)], alpha hydro-omegahydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2- hydroxy-3-mercaptopropyl ether	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 75 mg/kg/day	90 days
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	90 days
Poly[oxy(methyl-1,2-ethanediyl)], alpha hydroomegahydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2- hydroxy-3-mercaptopropyl ether	Ingestion	endocrine system heart skin immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis respiratory system	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Oxide Glass Chemicals	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Tris(2,4,6-dimethylaminomonomethyl)phenol	Dermal	skin liver nervous system auditory system hematopoietic system eyes	Not classified	Rat	NOAEL 125 mg/kg/day	28 days
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Titanium Dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium Dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

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

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

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Health: 3 Flammability: 1 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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3M Canada SDSs are available at www.3M.ca