

Material Safety Data Sheet

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PRODUCT NAME: 3MTM Dent Filling Compound PN 05859

MANUFACTURER: 3M

DIVISION: Automotive Aftermarket

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 03/23/12 **Supercedes Date:** 12/19/11

Document Group: 30-3224-0

ID Number(s):

60-4550-6562-7

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

29-4150-8, 29-5075-6

Revision Changes:

Kit: Component document group number(s) was modified.

Kit: Product name was modified.

Kit initial issue message was modified.

Copyright was modified.

Kit: ID Number Heading was added.

Kit: ID Number(s) was added.

Section 16: Web address was added.

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MATERIAL SAFETY DATA SHEET 3MTM Dent Filling Compound PN 05859 03/23/12

TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3MTM DMS Dent Filling Compound PN 05859, 55859

MANUFACTURER: 3M

DIVISION: Automotive Aftermarket

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/26/12 **Supercedes Date:** 03/05/12

Document Group: 29-4150-8

Product Use:

Intended Use: Automotive Specific Use: Body Filler

SECTION 2: INGREDIENTS

<u>Ingredient</u>	C.A.S. No.	% by Wt
POLYESTER RESIN (PROPRIETARY)	Trade Secret	10 - 30
1,3-ISOBENZOFURANDIONE, POLYMER WITH 2,5-FURANDIONE AND	26123-45-5	10 - 30
2,2'-OXYBIS[ETHANOL]		
TALC	14807-96-6	10 - 30
STYRENE MONOMER	100-42-5	10 - 30
TRIMETHYLOLPROPANE TRIACRYLATE	15625-89-5	1 - 5
BARIUM SULFATE	7727-43-7	1 - 5
LIMESTONE	1317-65-3	1 - 5
TITANIUM DIOXIDE	13463-67-7	1 - 5
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	112926-00-8	1 - 5
OXIDE GLASS CHEMICALS	65997-17-3	1 - 5
POLYACRYLATE POLYETHER POLYMER	Trade Secret	1 - 5
ZINC PHOSPHATE	7779-90-0	< 1
QUARTZ SILICA	14808-60-7	< 0.5
TOLUENE	108-88-3	< 0.005

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Light gray paste with pungent styrene odor.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. Contains a chemical or chemicals which can cause cancer. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eve Contact:

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

Skin Contact:

Moderate 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 be absorbed through skin and cause target organ 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.

Prolonged or repeated exposure may cause:

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

May be absorbed following inhalation and cause target organ effects.

Ingestion:

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

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Prolonged or repeated exposure may cause:

Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and /or respiratory reaction, and changes in immune function.

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.

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

<u>Ingredient</u>	C.A.S. No.	Class Description	Regulation
QUARTZ SILICA	14808-60-7	Grp. 1: Carcinogenic to	International Agency for Research on Cancer
		humans	
SILICA, CRYSTALLINE (AIRBORNE	SEQ677	Grp. 1: Carcinogenic to	International Agency for Research on Cancer
PARTICLES OF RESPIRABLE SIZE)		humans	
SILICA, CRYSTALLINE (AIRBORNE	SEQ677	Known human carcinogen	National Toxicology Program Carcinogens
PARTICLES OF RESPIRABLE SIZE)			
STYRENE MONOMER	100-42-5	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
STYRENE MONOMER	100-42-5	Anticipated human carcinogen	National Toxicology Program Carcinogens
TITANIUM DIOXIDE	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature

No Data Available

See First Method

Flash Point88 °F [Test Method: Closed Cup]Flammable Limits(LEL)0.9 % [Details: based on styrene]Flammable Limits(UEL)6.8 % [Details: based on styrene]

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: 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 equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

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Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

6.2. Environmental precautions

Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Clean-up methods

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. 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. Collect as much of the spilled material as possible using non-sparking tools. 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 MSDS. Seal the container.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid breathing of vapors created during cure cycle. Do not ingest. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Keep container closed when not in use. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Avoid contact with oxidizing agents. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Do not store containers on their sides. Store away from areas where product may come into contact with food or pharmaceuticals. Store away from oxidizing agents. Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Provide ventilated enclosure for heat curing. Provide appropriate local exhaust for molten or extruded material. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Do not use

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in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations.

The following eye protection(s) are recommended: Full Face Shield

Indirect Vented Goggles

.

8.2.2 Skin Protection

Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber

Polyvinyl Alcohol (PVA)

.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of vapors created during cure cycle. Avoid breathing of dust created by cutting, sanding, grinding or machining.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

. Select and use respiratory protection to prevent an inhalation exposure based on the results of an exposure assessment. Consult with your respirator manufacturer for selection of appropriate types of respirators.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	Authority	Type	<u>Limit</u>	Additional Information
BARIUM SULFATE	ACGIH	TWA	$\overline{10 \text{ mg}/\text{m3}}$	
BARIUM SULFATE	OSHA	TWA, respirable	5 mg/m3	
		fraction		
BARIUM SULFATE	OSHA	TWA, as total dust	15 mg/m3	
LIMESTONE	OSHA	TWA, respirable	5 mg/m3	
		fraction		
LIMESTONE	OSHA	TWA, as total dust	15 mg/m3	
OXIDE GLASS CHEMICALS	Manufacturer	TWA, as dust	10 mg/m3	
	determined			
QUARTZ SILICA	ACGIH	TWA, respirable	0.025 mg/m3	
		fraction		
QUARTZ SILICA	OSHA	TWA concentration,	0.1 mg/m3	
		respirable		
QUARTZ SILICA	OSHA	TWA concentration,	0.3 mg/m3	
		as total dust		
SILICA, AMORPHOUS	OSHA	TWA concentration	0.8 mg/m3	
SILICA, AMORPHOUS	OSHA	TWA	20 millions of	
			particles/cu. ft.	
STYRENE MONOMER	ACGIH	TWA	20 ppm	
STYRENE MONOMER	ACGIH	STEL	40 ppm	

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STYRENE MONOMER STYRENE MONOMER	OSHA OSHA	TWA CEIL	100 ppm 200 ppm	
TALC	ACGIH	TWA, respirable	200 ppili 2 mg/m3	
TABLE	ACOM	fraction	2 mg/m3	
TALC	CMRG	TWA, as respirable	0.5 mg/m3	
		dust		
TALC	OSHA	TWA concentration,	0.1 mg/m3	
		respirable		
TALC	OSHA	TWA concentration,	0.3 mg/m3	
		as total dust		
TALC	OSHA	TWA	20 millions of	
			particles/cu. ft.	
TITANIUM DIOXIDE	ACGIH	TWA	10 mg/m3	
TITANIUM DIOXIDE	CMRG	TWA, as respirable	5 mg/m3	
		dust		
TITANIUM DIOXIDE	OSHA	TWA, as total dust	15 mg/m3	
TOLUENE	ACGIH	TWA	20 ppm	
TOLUENE	CMRG	STEL	75 ppm	Skin Notation*
TOLUENE	OSHA	TWA	200 ppm	
TOLUENE	OSHA	CEIL	300 ppm	
TRIMETHYLOLPROPANE TRIACRYLATE	AIHA	TWA	1 mg/m3	Skin Notation*

^{*} Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade: Light gray paste with pungent styrene odor.

General Physical Form: Liquid

Autoignition temperature No Data Available

Flash Point 88 °F [Test Method: Closed Cup]
Flammable Limits(LEL) 0.9 % [Details: based on styrene]
Flammable Limits(UEL) 6.8 % [Details: based on styrene]

Boiling Point 293 °F
Density 1.096 g/ml

Vapor Density 3.60 [Ref Std: AIR=1]

Vapor Pressure 4.5 mmHg

Specific Gravity 1.096 [Ref Std: WATER=1]

pH Not ApplicableMelting point No Data Available

Solubility in WaterNegligibleEvaporation rateNo Data Available

Hazardous Air Pollutants 17.62 % weight [Test Method: Calculated]

Volatile Organic Compounds201 g/l [*Test Method:* calculated SCAQMD rule 443.1] **Volatile Organic Compounds**18.3 % weight [*Test Method:* calculated per CARB title 2]

Kow - Oct/Water partition coefNo Data Available

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Percent volatile VOC Less H2O & Exempt Solvents Viscosity 18.35 % weight 201 g/l [*Test Method:* calculated SCAQMD rule 443.1] 96000 centipoise - 172000 centipoise

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable. Stable under normal conditions. Maybe become unstable at elevated temperatures and/or pressure.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

Heat

Sparks and/or flames

10.2 Materials to avoid

Strong oxidizing agents Strong acids Alkali and alkaline earth metals Strong bases

Additional Information: Storage at elevated temperatures will reduce shelf-life.

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

SubstanceConditionHydrocarbonsDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a permitted hazardous waste facility.

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EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D006 (Cadmium), D010 (Selenium)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):

41-4901-0123-9, 60-4550-6629-4

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

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	% by Wt
STYRENE MONOMER	100-42-5	10 - 30

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

<u>C.A.S. No.</u>	<u>Classification</u>
SEQ677	**Carcinogen
13463-67-7	**Carcinogen
108-88-3	*Female reproductive toxin
108-88-3	*Developmental Toxin
	13463-67-7 108-88-3

^{*} WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 3 Reactivity: 1 Special Hazards: None

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^{**} WARNING: contains a chemical which can cause cancer.

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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.

HMIS Hazard Classification

Health: 2 Flammability: 3 **Reactivity:** 1 **Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 16: NFPA hazard classification for reactivity was modified.

Section 16: HMIS hazard classification for reactivity was modified.

Section 3: Potential effects from inhalation information was modified.

Section 7: Handling information was modified.

Section 7: Storage information was modified.

Section 8: Engineering controls information was modified.

Section 8: Eye/face protection information was modified.

Section 8: Skin protection - recommended gloves information was modified.

Section 8: Respiratory protection - recommended respirators information was modified.

Section 3: Immediate other hazard(s) was modified.

Section 15: Inventories information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.

Sections 3 and 9: Odor, color, grade information was modified.

Section 9: Property description for optional properties was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 2: Ingredient table was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 15: California proposition 65 ingredient information was modified.

Section 6: Personal precautions information was modified.

Section 10: Materials to avoid physical property was modified.

Section 10: Materials and conditions to avoid comment was added.

Section 10: Materials and conditions to avoid comment heading was added.

Section 15: California proposition 65 reproductive harm warning was added.

Section 3: Other health effects information (reproductive hazards) was added.

Section 8: Hand protection information was added.

Section 9: Vapor density text was deleted.

Section 9: Vapor pressure text was deleted.

Section 9: Solubility in water value was deleted.

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In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M
3M USA MSDSs are available at www.3M.com



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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3MTM Blue Cream Hardener PN 55800

MANUFACTURER: 3M

DIVISION: Automotive Aftermarket

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 09/05/12 **Supercedes Date:** 03/06/12

Document Group: 29-5075-6

Product Use:

Intended Use: Automotive

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	<u>% by Wt</u>
BENZOYL PEROXIDE	94-36-0	30 - 60
BENZOIC ACID, 2-ETHYLHEXYL ESTER	5444-75-7	10 - 30
WATER	7732-18-5	10 - 30
ETHYLENE GLYCOL	107-21-1	1 - 5
CALCIUM SULFATE	7778-18-9	1 - 5
ZINC STEARATE	557-05-1	1 - 5
BLUE PIGMENT	Trade Secret	< 1

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: Blue Paste Characteristic Odor.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Closed containers exposed to heat from fire may build pressure and

explode. May cause severe eye irritation. May cause allergic skin reaction. May cause target organ effects.

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3.2 POTENTIAL HEALTH EFFECTS

Eve Contact:

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

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

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

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

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Autoignition temperature50 °C [Details: SADT]Flash PointNo flash pointFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data Available

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may be used to blanket the fire. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Closed containers exposed to heat from fire may build pressure and explode.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Dispose of collected material as soon as possible.

Clean-up methods

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Contain spill. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. 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. Collect as much of the spilled material as possible using non-sparking tools. 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 MSDS. Seal the container.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid breathing of vapors, mists or spray. Avoid skin contact. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Do not heat under confinement to avoid risk of explosion Store away from areas where product may come into contact with food or pharmaceuticals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Provide appropriate local exhaust for cutting, grinding, sanding or machining. Use in a well-ventilated area. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles

8.2.2 Skin Protection

Not applicable. Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Neoprene

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. 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 particulates

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

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	Authority	Type	<u>Limit</u>	Additional Information
BENZOYL PEROXIDE	ACGIH	TWA	5 mg/m3	
BENZOYL PEROXIDE	OSHA	TWA	5 mg/m3	
CALCIUM SULFATE	ACGIH	TWA, inhalable	10 mg/m3	
		fraction		
CALCIUM SULFATE	OSHA	TWA, respirable	5 mg/m3	
		fraction		
CALCIUM SULFATE	OSHA	TWA, as total dust	15 mg/m3	
CYANIDES	OSHA	TWA, as CN	5 mg/m3	Skin Notation*
ETHYLENE GLYCOL	ACGIH	CEIL, as aerosol	100 mg/m3	
ETHYLENE GLYCOL	CMRG	CEIL, as vapor and	100 mg/m3	
		aerosol		
STEARATES	ACGIH	TWA	10 mg/m3	
Sulfuric acid, calcium salt (1:1)	ACGIH	TWA, inhalable	10 mg/m3	
		fraction		

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Sulfuric acid, calcium salt (1:1) **OSHA** TWA, respirable 5 mg/m3 fraction Sulfuric acid, calcium salt (1:1) **OSHA** TWA, as total dust 15 mg/m3 **OSHA** ZINC STEARATE TWA, respirable 5 mg/m3 fraction ZINC STEARATE **OSHA** 15 mg/m3 TWA, as total dust

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form: Paste

Blue Paste Characteristic Odor. Odor, Color, Grade:

General Physical Form: Liquid

50 °C [Details: SADT] **Autoignition temperature**

Flash Point No flash point Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available **Boiling Point** No Data Available

Density 1.16 - 1.24 g/ml [@ 20 °C]

Vapor Density No Data Available

Vapor Pressure 100 Pa [@ 20 °C]

Specific Gravity 1.16 - 1.24 [*Ref Std:* WATER=1]

No Data Available рH **Melting point** No Data Available

Solubility in Water Nil

Evaporation rate No Data Available

Hazardous Air Pollutants <=0.089 lb HAPS/lb solids [Test Method: Calculated] **Volatile Organic Compounds** <=59 g/l [Test Method: calculated SCAQMD rule 443.1] **Volatile Organic Compounds** <=4.9 % weight [Test Method: calculated per CARB title 2]

Kow - Oct/Water partition coef No Data Available 11 - 30 % weight Percent volatile

VOC Less H2O & Exempt Solvents <=78 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

Sparks and/or flames

10.2 Materials to avoid

Accelerators

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Alkali and alkaline earth metals Amines Reducing agents Strong acids

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

This product has been classified on the basis that it is stable as sold. Material may become unstable if allowed to dry out. Classify appropriately before disposal.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):

LB-K100-0973-0, LB-K100-0973-1, LB-K100-0973-2, LB-K100-0973-3, LB-K100-0973-4, LB-K100-0973-5, LB-K100-0973-6, LB-K100-1055-2, 60-4550-6627-8

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

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	C.A.S. No	% by Wt
BENZOYL PEROXIDE	94-36-0	30 - 60
ZINC STEARATE (ZINC COMPOUNDS)	557-05-1	1 - 5
ETHYLENE GLYCOL	107-21-1	1 - 5
BLUE PIGMENT (CYANIDES)	Trade Secret	< 1

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 2 Reactivity: 2 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.

Revision Changes:

Section 1: Product name was modified.

Section 3: Potential effects from skin contact information was modified.

Section 13: Waste disposal method information was modified.

Section 13: EPA hazardous waste number (RCRA) information was modified.

Section 8: Respiratory protection - recommended respirators information was modified.

Section 8: Respiratory protection - recommended respirators was modified.

Page Heading: Product name was modified.

Section 8: Respiratory protection - recommended respirators guide was modified.

Section 2: Ingredient table was modified.

Section 6: Personal precautions information was modified.

Section 6: Environmental procedures information was modified.

Section 6: Methods for cleaning up information was modified.

Section 8: Respiratory protection - recommended respirators punctuation was deleted.

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