



Material Safety Data Sheet

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PRODUCT NAME: 3M™ Platinum Plus(r), PN 0032, 01131, 01132, 01135B, 31181
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)

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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:

26-9510-4, 24-8206-5

Revision Changes:

Copyright was modified.

Page Heading: Product name was modified.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Platinum Plus Filler, PN 0032, 01130, 01131, 01132, 01135, 01135B, 31135, 31181
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: 03/16/11
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Document Group: 24-8206-5

Product Use:

Intended Use: Automotive
 Specific Use: Autobody Repair

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
POLYESTER RESIN (PROPRIETARY)	Trade Secret	15 - 40
TALC	14807-96-6	10 - 30
STYRENE MONOMER	100-42-5	10 - 30
UNSATURATED POLYESTER RESIN NJST# 800986-5121P	Trade Secret	10 - 30
SODIUM SILICATE	1344-09-8	3 - 7
LIMESTONE	1317-65-3	3 - 7
QUATERNARY AMMONIUM COMPOUNDS, BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL, SALTS WITH MONTMORILLONITE	68911-87-5	1 - 5
TITANIUM DIOXIDE	13463-67-7	1 - 5
ZINC PHOSPHATE	7779-90-0	1 - 5
MAGNESIUM CARBONATE	546-93-0	1 - 5
SODIUM METABORATE	7775-19-1	0.5 - 1.5
QUARTZ SILICA	14808-60-7	< 0.3
BENZENE	71-43-2	< 0.05
TOLUENE	108-88-3	< 0.05

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: Gold Paste with pungent solvent odor

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode. Contact with aluminum or zinc in a pressurized system may generate hydrogen gas which could create an explosion hazard. May cause severe eye irritation. May cause severe skin irritation. May cause allergic skin reaction. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which can cause cancer.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

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

Skin Contact:

Severe 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.

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

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.

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.

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

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>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
Arsenic	7440382	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Arsenic	7440382	Cancer hazard	OSHA Carcinogens
ARSENIC COMPOUNDS	S~AS~C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
ARSENIC COMPOUNDS, INORGANIC	S~AS~I	Known human carcinogen	National Toxicology Program Carcinogens
ARSENIC COMPOUNDS, INORGANIC	S~AS~I	Cancer hazard	OSHA Carcinogens
Benzene	71432	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Benzene	71432	Known human carcinogen	National Toxicology Program Carcinogens
Benzene	71432	Cancer hazard	OSHA Carcinogens
BENZENE	71-43-2	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
BENZENE	71-43-2	Known human carcinogen	National Toxicology Program Carcinogens
BENZENE	71-43-2	Cancer hazard	OSHA Carcinogens
Cadmium	7440439	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Cadmium	7440439	Known human carcinogen	National Toxicology Program Carcinogens
Cadmium	7440439	Cancer hazard	OSHA Carcinogens
CADMIUM COMPOUNDS	S~CD~C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
CADMIUM COMPOUNDS	S~CD~C	Known human carcinogen	National Toxicology Program Carcinogens
CADMIUM COMPOUNDS	S~CD~C	Cancer hazard	OSHA Carcinogens
CHROMIUM (HEXA VALENT COMPOUNDS)	S~CR6~C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
CHROMIUM (HEXA VALENT COMPOUNDS)	S~CR6~C	Known human carcinogen	National Toxicology Program Carcinogens
CHROMIUM (HEXA VALENT COMPOUNDS)	S~CR6~C	Cancer hazard	OSHA Carcinogens

Lead	7439921	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Lead	7439921	Anticipated human carcinogen	National Toxicology Program Carcinogens
LEAD COMPOUNDS	S~PB~C	Anticipated human carcinogen	National Toxicology Program Carcinogens
Nickel	7440020	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Nickel	7440020	Anticipated human carcinogen	National Toxicology Program Carcinogens
NICKEL COMPOUNDS	S~NI~C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
NICKEL COMPOUNDS (EXCEPT ALLOYS)	S~NI~CE2	Known human carcinogen	National Toxicology Program Carcinogens
QUARTZ SILICA	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	Known human carcinogen	National Toxicology Program Carcinogens
STYRENE MONOMER	100-42-5	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
TALC	14807-96-6	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
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: 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

Autoignition temperature	<i>No Data Available</i>
Flash Point	88 °F [<i>Test Method:</i> Closed Cup]
Flammable Limits(LEL)	0.9 %
Flammable Limits(UEL)	6.8 %
OSHA Flammability Classification:	Class IC Flammable Liquid

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.

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. 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 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 static discharge. Avoid eye contact with vapors, mists, or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. 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. Store away from oxidizing agents. Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Provide appropriate local exhaust for cutting, grinding, sanding or machining. 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.
 The following eye protection(s) are recommended: 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.
 Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA)

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. 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 fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters.
 Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

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>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ALUMINUM OXIDE (FIBROUS FORMS ONLY)	OSHA	TWA, respirable fraction	5 mg/m3	
ALUMINUM OXIDE (FIBROUS FORMS ONLY)	OSHA	TWA, as total dust	15 mg/m3	
Aluminum, insoluble compounds	ACGIH	TWA, respirable fraction	1 mg/m3	
Arsenic	ACGIH	TWA, as As	0.01 mg/m3	
Arsenic	OSHA	TWA	0.01 mg/m3	29 CFR 1910.1018
ARSENIC COMPOUNDS, INORGANIC	ACGIH	TWA, as As	0.01 mg/m3	
ARSENIC COMPOUNDS, INORGANIC	OSHA	TWA	0.01 mg/m3	29 CFR 1910.1018
BENZENE	ACGIH	TWA	0.5 ppm	Skin Notation*
BENZENE	ACGIH	STEL	2.5 ppm	Skin Notation*
BENZENE	OSHA	TWA	1 ppm	29 CFR 1910.1028
BENZENE	OSHA	STEL	5 ppm	29 CFR 1910.1028
BENZENE	OSHA	TWA	10 ppm	
BENZENE	OSHA	CEIL	25 ppm	
Benzene	ACGIH	TWA	0.5 ppm	Skin Notation*
Benzene	ACGIH	STEL	2.5 ppm	Skin Notation*
Benzene	OSHA	TWA	1 ppm	29 CFR 1910.1028
Benzene	OSHA	STEL	5 ppm	29 CFR 1910.1028
Benzene	OSHA	TWA	10 ppm	
Benzene	OSHA	CEIL	25 ppm	
Borates	ACGIH	TWA, inhalable fraction	2 mg/m3	
Borates	ACGIH	STEL, inhalable fraction	6 mg/m3	
Cadmium	ACGIH	TWA, as Cd,	0.002 mg/m3	

		respirable		
Cadmium	ACGIH	TWA, as Cd	0.01 mg/m3	
Cadmium	OSHA	TWA	0.005 mg/m3	29 CFR 1910.1027
Cadmium	OSHA	TWA, as fume	0.1 mg/m3	
Cadmium	OSHA	TWA, as dust	0.2 mg/m3	
Cadmium	OSHA	CEIL, as fume	0.3 mg/m3	
Cadmium	OSHA	CEIL, as dust	0.6 mg/m3	
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd,	0.002 mg/m3	
		respirable		
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd	0.01 mg/m3	
CADMIUM COMPOUNDS	OSHA	TWA	0.005 mg/m3	29 CFR 1910.1027
Carbonic acid, magnesium salt (1:1)	OSHA	TWA, respirable	5 mg/m3	
		fraction		
Carbonic acid, magnesium salt (1:1)	OSHA	TWA, as total dust	15 mg/m3	
CHROMATES	OSHA	CEIL	0.1 mg/m3	
Chromium	ACGIH	TWA, as Cr	0.5 mg/m3	
Chromium	OSHA	TWA, as Cr	1 mg/m3	
CHROMIUM (HEXAVALENT COMPOUNDS)	OSHA	TWA	0.005 mg/m3	Skin Notation*; 29 CFR 1910.1026
Chromium(6+), insoluble inorganic compounds	ACGIH	TWA, as Cr	0.01 mg/m3	
Chromium, insoluble salts	OSHA	TWA, as Cr	1 mg/m3	
Lead	ACGIH	TWA, as Pb	0.05 mg/m3	
Lead	OSHA	TWA	0.05 mg/m3	29 CFR 1910.1025
Limestone	OSHA	TWA, respirable	5 mg/m3	
		fraction		
Limestone	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	
MAGNESIUM CARBONATE	OSHA	TWA, respirable	5 mg/m3	
		fraction		
MAGNESIUM CARBONATE	OSHA	TWA, as total dust	15 mg/m3	
Mercury	ACGIH	TWA, as Hg	0.025 mg/m3	Skin Notation*
Mercury	OSHA	CEIL	0.1 mg/m3	
Nickel	ACGIH	TWA, inhalable	1.5 mg/m3	
		fraction		
Nickel	OSHA	TWA, as Ni	1 mg/m3	
QUARTZ SILICA	ACGIH	TWA, respirable	0.025 mg/m3	
		fraction		
QUARTZ SILICA	OSHA	TWA concentration, respirable	0.1 mg/m3	
		fraction		
QUARTZ SILICA	OSHA	TWA concentration, as total dust	0.3 mg/m3	
Selenium	ACGIH	TWA, as Se	0.2 mg/m3	
SELENIUM COMPOUNDS	ACGIH	TWA, as Se	0.2 mg/m3	
SELENIUM COMPOUNDS	OSHA	TWA, as Se	0.2 mg/m3	
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	
STYRENE MONOMER	OSHA	TWA	100 ppm	
STYRENE MONOMER	OSHA	CEIL	200 ppm	
TALC	ACGIH	TWA, respirable	2 mg/m3	
		fraction		
TALC	CMRG	TWA, as respirable dust	0.5 mg/m3	
TALC	OSHA	TWA concentration, respirable	0.1 mg/m3	
TALC	OSHA	TWA concentration, as total dust	0.3 mg/m3	
TALC	OSHA	TWA	20 millions of	

TIN, ORGANIC COMPOUNDS	ACGIH	TWA, as Sn	0.1 mg/m3	particles/cu. ft.	Skin Notation*
TIN, ORGANIC COMPOUNDS	ACGIH	STEL, as Sn	0.2 mg/m3		Skin Notation*
TIN, ORGANIC COMPOUNDS	OSHA	TWA, as Sn	0.1 mg/m3		
TITANIUM DIOXIDE	ACGIH	TWA	10 mg/m3		
TITANIUM DIOXIDE	CMRG	TWA, as respirable dust	5 mg/m3		
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		
Water-soluble inorganic Cr(6+) compounds	ACGIH	TWA, as Cr	0.05 mg/m3		

* 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

Specific Physical Form:	Paste
Odor, Color, Grade:	Gold Paste with pungent solvent odor
General Physical Form:	Liquid
Autoignition temperature	No Data Available
Flash Point	88 °F [Test Method: Closed Cup]
Flammable Limits(LEL)	0.9 %
Flammable Limits(UEL)	6.8 %
Boiling Point	293 °F
Density	0.984 g/ml
Vapor Density	3.6 [Ref Std: AIR=1]
Vapor Density	No Data Available
Vapor Pressure	4.5 mmHg
Vapor Pressure	No Data Available
Specific Gravity	0.984 [Ref Std: WATER=1]
pH	No Data Available
Melting point	No Data Available
Solubility In Water	No Data Available
Solubility in Water	Negligible
Evaporation rate	0.1 - 0.5 [Ref Std: BUOAC=1]
Hazardous Air Pollutants	23.5 % weight [Test Method: Calculated]
Volatile Organic Compounds	23.6 % weight [Test Method: calculated per CARB title 2]
Volatile Organic Compounds	232 g/l [Test Method: calculated SCAQMD rule 443.1]
Kow - Oct/Water partition coef	No Data Available
Percent volatile	23.6 % weight
Percent volatile	25.54 % volume
VOC Less H2O & Exempt Solvents	232 g/l [Test Method: calculated SCAQMD rule 443.1]
Viscosity	144000 centipoise - 168000 centipoise

SECTION 10: STABILITY AND REACTIVITY

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

Materials and Conditions to Avoid:

10.1 Conditions to avoid

Sparks and/or flames
Heat

10.2 Materials to avoid

Strong acids
Strong oxidizing agents
Alkali and alkaline earth metals

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Hydrocarbons
Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion
During 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.

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-K100-0535-1, LB-K100-0535-2, LB-K100-0601-5, LB-K100-0913-2, 41-0003-6573-8, 41-0003-6595-1, 41-3588-1070-7, 60-4550-5270-8, 70-0080-0094-8

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>	<u>C.A.S. No</u>	<u>% by Wt</u>
STYRENE MONOMER	100-42-5	10 - 30
ZINC PHOSPHATE (ZINC COMPOUNDS)	7779-90-0	1 - 5

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
ARSENIC COMPOUNDS, INORGANIC	S~AS~I	**Carcinogen
CADMIUM COMPOUNDS	S~CD~C	*Male reproductive toxin
CADMIUM COMPOUNDS	S~CD~C	**Carcinogen
CADMIUM COMPOUNDS	S~CD~C	*Developmental Toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	S~CR6~C	*Female reproductive toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	S~CR6~C	*Male reproductive toxin
CHROMIUM (HEXAVALENT COMPOUNDS)	S~CR6~C	**Carcinogen
CHROMIUM (HEXAVALENT COMPOUNDS)	S~CR6~C	*Developmental Toxin
Arsenic	7440382	**Carcinogen
Benzene	71432	*Male reproductive toxin
Benzene	71432	**Carcinogen

Benzene	71432	*Developmental Toxin
Cadmium	7440439	*Male reproductive toxin
Cadmium	7440439	**Carcinogen
Cadmium	7440439	*Developmental Toxin
Lead	7439921	*Female reproductive toxin
Lead	7439921	*Male reproductive toxin
Lead	7439921	**Carcinogen
Lead	7439921	*Developmental Toxin
Mercury	7439976	*Developmental Toxin
Nickel	7440020	**Carcinogen
LEAD COMPOUNDS	S~PB~C	*Female reproductive toxin
LEAD COMPOUNDS	S~PB~C	*Male reproductive toxin
LEAD COMPOUNDS	S~PB~C	**Carcinogen
LEAD COMPOUNDS	S~PB~C	*Developmental Toxin
MERCURY COMPOUNDS	S~HG~C	*Developmental Toxin
NICKEL COMPOUNDS	S~NI~C	**Carcinogen
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	**Carcinogen
BENZENE	71-43-2	*Male reproductive toxin
BENZENE	71-43-2	**Carcinogen
BENZENE	71-43-2	*Developmental Toxin
TOLUENE	108-88-3	*Female reproductive toxin
TOLUENE	108-88-3	*Developmental Toxin

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

** WARNING: contains a chemical which can cause cancer.

CHEMICAL INVENTORIES

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

The components of this product are listed on the Canadian Domestic Substances List.

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: 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.

Revision Changes:

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

Section 2: Ingredient table was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 3: Carcinogenicity table was modified.

Section 15: California proposition 65 ingredient information was modified.

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Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Blue Cream Hardener
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: 04/18/11
Supersedes Date: 04/14/11

Document Group: 26-9510-4

Product Use:

Intended Use: Automotive
Specific Use: Hardener for Body Fillers

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
BENZOYL PEROXIDE	94-36-0	30 - 60
BENZOIC ACID, C9-11-BRANCHED ALKYL ESTERS	131298-44-7	10 - 30
WATER	7732-18-5	10 - 30
ZINC STEARATE	557-05-1	5 - 10
CALCIUM SULFATE	7778-18-9	3 - 7
OXIRANE, POLYMER WITH METHYLOXIRANE, MONOBUTYL ETHER	9038-95-3	3 - 7
FERRIC AMMONIUM FERROCYANIDE	25869-00-5	< 1
FERRIC FERROCYANIDE	14038-43-8	< 1

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: Blue paste with slight ester odor

General Physical Form: Solid

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.

3.2 POTENTIAL HEALTH EFFECTS

Eye 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:

Prolonged or repeated exposure may cause:

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

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.

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

Autoignition temperature	410 °C [Test Method: Estimated]
Flash Point	111 °C [Test Method: Estimated]
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable

5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam). 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.

6.2. Environmental precautions

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue.

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. No smoking while handling this material. Avoid skin contact. 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. Do not breathe vapors. Avoid eye contact with dust or airborne particles. 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 heat. Store out of direct sunlight. Keep container in well-ventilated area. Do not heat under confinement to avoid risk of explosion. 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 appropriate local exhaust for cutting, grinding, sanding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. 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: Safety Glasses with side shields

Indirect Vented Goggles

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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.

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

. Use an additional glove (e.g. supported PVC or Nitrile) over the PE/EVAL glove, and change the over-glove frequently.

8.2.3 Respiratory Protection

Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not breathe vapors.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters

. 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>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
BENZOYL PEROXIDE	ACGIH	TWA	5 mg/m3	
BENZOYL PEROXIDE	OSHA	TWA	5 mg/m3	
CALCIUM SULFATE	ACGIH	TWA, inhalable fraction	10 mg/m3	
CALCIUM SULFATE	OSHA	TWA, respirable fraction	5 mg/m3	
CALCIUM SULFATE	OSHA	TWA, as total dust	15 mg/m3	
ZINC STEARATE	OSHA	TWA, respirable fraction	5 mg/m3	
ZINC STEARATE	OSHA	TWA, as total dust	15 mg/m3	

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
Odor, Color, Grade:	Blue paste with slight ester odor
General Physical Form:	Solid
Autoignition temperature	410 °C [<i>Test Method:</i> Estimated]
Flash Point	111 °C [<i>Test Method:</i> Estimated]
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Boiling Point	<i>Not Applicable</i>
Density	1.2 g/ml
Vapor Density	<i>No Data Available</i>
Vapor Density	<i>No Data Available</i>
Vapor Pressure	<i>No Data Available</i>
Vapor Pressure	<i>No Data Available</i>
Specific Gravity	1.2 [<i>Ref Std:</i> WATER=1] [<i>Details:</i> @ 25 C]
pH	<i>No Data Available</i>
Melting point	<i>No Data Available</i>
Solubility In Water	<i>No Data Available</i>
Solubility in Water	Negligible
Evaporation rate	<i>No Data Available</i>
Hazardous Air Pollutants	2.0 % weight [<i>Test Method:</i> Calculated]
Volatile Organic Compounds	0 % weight [<i>Test Method:</i> calculated per CARB title 2]
Volatile Organic Compounds	0 g/l [<i>Test Method:</i> calculated SCAQMD rule 443.1]
Kow - Oct/Water partition coef	<i>No Data Available</i>
VOC Less H2O & Exempt Solvents	0 g/l [<i>Test Method:</i> calculated SCAQMD rule 443.1]
Viscosity	70000 centipoise - 150000 centipoise
Materials to avoid	Accelerators [<i>Details:</i> dimethylaniline cobalt napthenate and other promoters reducing agents or any hot materials.]

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

Accelerators

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide
Toxic Vapor, Gas, Particulate

Condition

During Combustion
During Combustion
During 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 sanitary landfill. As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material.

As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

LB-K100-0788-3, LB-K100-0801-2, 41-0003-6567-0, 41-0003-6575-3, 41-0003-6576-1, 41-0003-6577-9, 41-0003-6578-7, 41-0003-6610-8, 41-0003-6613-2, 41-0003-6614-0, 60-4550-4563-7, 60-4550-4689-0, 70-0080-0038-5, 70-0080-0373-6, 70-0080-0377-7, 70-0080-0380-1, 70-0080-0382-7, 70-0080-0386-8, 70-0080-0389-2, 70-0080-0609-3

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 - No 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>	<u>% by Wt</u>
ZINC STEARATE (ZINC COMPOUNDS)	557-05-1	5 - 10
BENZOYL PEROXIDE	94-36-0	30 - 60

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

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

The components of this product are listed on the Canadian Domestic Substances List.

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:** 0 **Special Hazards:** Oxidizer

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 5: Extinguishing media information was modified.

Section 8: Prevention of swallowing information was modified.

Section 13: Waste disposal method information was modified.

Section 15: EPCRA 313 information was modified.

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