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**CONSUMER PRODUCT  
UPDATE NOT REQUIRED**

Material Safety Data Sheet

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Prepared by: Corporate Regulatory Services, 3M Canada Company  
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1 Product Identification

Tradename:  
3M BRAND PUTTY/MASTIC 5964  
Product ID:  
CS-0406-2000-0  
Intended Use of Product:  
Putty;  
Division:  
3M CANADA COMPANY

APPROVED MATERIAL  
FEB 07 2006  
MSDS # 10732  
APPROVED BY *[Signature]*

*Reviewed 28 July 09  
JRO  
Reviewed 5 Sept 12  
JRO*

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
TALC (NON-ASBESTIFORM)	14807-96-6	45 - 50
CALCIUM, MAGNESIUM CARBONATE	Not Available	10 - 20
ISOBUTYL ACETATE	110-19-0	5 - 10
TOLUENE	108-88-3	5 - 10
NITROCELLULOSE	Not Available	5 - 10
PLASTICIZER	Not Available	1 - 5
POLYESTER RESIN	Not Available	1 - 5
TITANIUM DIOXIDE	13463-67-7	1 - 5
ETHYL ALCOHOL (DENATURED)	64-17-5	2 - 3
N-BUTYL ALCOHOL	71-36-3	0.1 - 1.0

Ingredient Statements:

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C DENOTES CEILING LIMIT

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Flammable liquid and vapour.

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

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

TALC (14807-96-6) has been shown to cause fibrosis of the lungs. See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

Instructions for Skin Contact:

Flush skin with large amounts of water. If irritation persists, get medical attention.

Instructions for Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Instructions for Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5 Fire Fighting Measures

Flash point:	8 C TCC
Lower Explosive Limit (%):	Not available
Upper Explosive Limit (%):	Not available
Autoignition temperature:	Not available

Suitable Extinguishing Media:

Carbon Dioxide; Dry chemical; Foam;

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or

particulates;

Fire Fighting Procedures:

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.

NFPA: Health	2
NFPA: Fire	3
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

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6 Accidental Release Measures  
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Personal Precautions:

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Ventilate the area with fresh air. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. 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. Place in an approved metal container.

Methods for Disposal:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Dispose of waste product in a facility permitted to accept chemical waste.

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7 Handling and Storage  
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Storage Requirements:

Keep container closed when not in use.

Incompatible Materials:

Not applicable.

Ventilation:

No data available.

Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Use Instructions:

Keep container tightly closed.

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8 Exposure Controls/Personal Protection  
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Personal Protection

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Eye Protection:

Avoid eye contact. The following should be worn alone or in combination, as appropriate, to prevent eye contact: Indirect vented goggles; Safety glasses with side shields

## Hand Protection:

Wear appropriate gloves when handling this material. The following glove material(s) are recommended: polyethylene/ethylene vinyl alcohol; polyvinyl alcohol; polytetrafluoroethylene (teflon);

## Skin Protection:

Avoid skin contact.

## Respiratory Protection:

Avoid prolonged breathing of vapours.

## Ingestion (Prevention):

Do not ingest. Keep out of the reach of children.

## Recommended Ventilation:

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

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Ingredient Exposure Data  
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## TALC (NON-ASBESTIFORM) (14807-96-6)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

ACGIH: TWA 2 mg/m3 (Respirable) (Table A4)

CMRG: TWA 0.5 mg/m3 as respirable dust (specific form)

## CALCIUM, MAGNESIUM CARBONATE (Not Available)

## Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

No data available.

## ISOBUTYL ACETATE (110-19-0)

LD50 (rat, oral) 13,400 mg/kg

LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

713 mg/m3 150 ppm ACGIH: TWA

ACGIH: TWA

## TOLUENE (108-88-3)

## Specific Ingredient Data

LD50 (female rat, inhalation/4 hours vapour) 19.0 mg/l

LD50 (rat, oral) 636 mg/kg

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LD50 (dermal, rabbit) 14100 uL/kg

LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

ACGIH: TWA 188 mg/m3 (skin contact contributes to exposure) (Table A4)

ACGIH: TWA 50 ppm (skin contact contributes to exposure) (Table A4)

CMRG: STEL 75 ppm (skin contact contributes to exposure)

## NITROCELLULOSE (Not Available)

Specific Ingredient Data  
 No data available.

LD50 (rat, oral) No data available.  
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits  
 No data available.

PLASTICIZER (Not Available)  
 Specific Ingredient Data  
 No data available.

LD50 (rat, oral) No data available.  
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits  
 No data available.

POLYESTER RESIN (Not Available)  
 Specific Ingredient Data  
 No data available. No data available. No data available.

LD50 (rat, oral) No data available.  
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits  
 No data available.

TITANIUM DIOXIDE (13463-67-7)  
 LD50 (rat, oral) >24000 mg/kg  
 LC50 (rat, inhalation/4 hours) >6820 mg/m3

Exposure Limits  
 ACGIH: TWA 10 mg/m3  
 CMRG: TWA 5 mg/m3

ETHYL ALCOHOL (DENATURED) (64-17-5)  
 LD50 (rat, oral) 7060 mg/kg  
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits  
 ACGIH: TWA 1000 ppm (Table A4)  
 ACGIH: TWA 1880 mg/m3 (Table A4)

N-BUTYL ALCOHOL (71-36-3)  
 Specific Ingredient Data  
 LD50 (rabbit, dermal): 4220 mg/kg

LD50 (rat, oral) 2150 mg/kg  
 LD50 (dermal, rabbit) 3400 mg/kg  
 LC50 (rat, inhalation/4 hours) 8000 ppm

Exposure Limits  
 ACGIH: TWA 20 ppm

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 9 Physical and Chemical Properties
 

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Physical form, Color, Odour:	Solid; mastic; reddish brown colour; solvent odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not available
Vapour pressure:	Not applicable
Water Solubility:	Negligible
Specific gravity:	1.730 Water=1

Vapour density:	Not applicable
Volatile organic compounds:	Not available
Evaporation rate:	Not applicable
Viscosity:	Not available
Percent Volatile:	No data available.

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## 10 Stability and Reactivity

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### Conditions to Avoid:

None known.

### Materials to Avoid:

Not applicable.

### Hazardous Decomposition:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or particulates;

### Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

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## 11 Toxicological Information

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### Effects from Eye Contact:

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

### Effects from Skin Contact:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

### Effects from Inhalation:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

### Effects from Ingestion:

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

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### Sensitization Information:

No data available.

### Carcinogenicity:

Note: This product contains ethanol. In IARC published Monograph No. 44, entitled, 'Alcohol Drinking', the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

### Mutagenicity:

No data available.

### Reproductive Effects:

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

### Component Based Information:

TALC (14807-96-6) has been shown to cause fibrosis of the lungs.

Product Based Information:

No data available.

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12 Ecological Information  
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Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:

Other Effects and Information:

Not determined.

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13 Disposal Considerations  
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Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

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

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14 Transportation Information  
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Transportation of Dangerous Goods

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TDG Classification:

Consumer Commodity

International Dangerous Goods Classification  
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15 Regulatory Information  
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WHMIS Classification:

Exempt (Consumer Product)

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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16 Other Information  
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Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 2 - Composition/Information on Ingredients;

Section 3 - Hazards Identification - Critical Hazards;

Section 5 - Fire Fighting Measures

Section 11 - Toxicological Information;

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