

**Common Name:** SCOTCH 232 HIGH PERFORMANCE MASKING TAPE

**Manufacturer:** 3M

**SDS Revision Date:** 4/26/2007

**SDS Format:** No Format Specified

**Grainger Item Number(s):** 1RG65, 1RG66, 1RG67, 1RG68, 1RG69, 1RG70, 3LU49, 3LU50, 3LU51, 3

**Manufacturer Model Number(s):** 21200028526, 21200028533, 21200028540, 21200028557, 21200028558, 21200042409, 232 1", 232 1-1/2", 232 2", 232 3/4"

3M

MATERIAL SAFETY DATA SHEET

SCOTCH BRAND #232 HIGH PERFORMANCE MASKING TAPE

04/26/2007

3M

MATERIAL SAFETY DATA SHEET

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCOTCH BRAND #232 HIGH PERFORMANCE MASKING TAPE

MANUFACTURER: 3M

DIVISION: INDUSTRIAL TAPE AND SPECIALTIES DIVISION

ADDRESS:  
3M CENTER  
ST. PAUL, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 OR (651) 737-6501 (24 HOURS)

ISSUE DATE: 04/26/2007

SUPERCEDES DATE: 01/11/2005

DOCUMENT GROUP: 07-0454-4

PRODUCT USE:

INTENDED USE: USED IN MEDIUM TEMPERATURE PAINT BAKE OPERATIONS.

LIMITATIONS ON USE: 250 DEG. F FOR UP TO ONE HOUR.

## SECTION 2: INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WT
SATURATED PAPER BACKING	MIXTURE	35 - 50
RUBBER / RESIN ADHESIVE	MIXTURE	5 - 20

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW:

SPECIFIC PHYSICAL FORM: ROLL OF TAPE

ODOR, COLOR, GRADE: TAN COLOR PAPER WITH UNPIGMENTED ADHESIVE

GENERAL PHYSICAL FORM: SOLID

### IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS:

THE ENVIRONMENTAL PROPERTIES OF THIS PRODUCT PRESENT A LOW ENVIRONMENTAL HAZARD. THIS PRODUCT, WHEN USED UNDER REASONABLE CONDITIONS AND IN ACCORDANCE WITH THE 3M DIRECTIONS FOR USE, SHOULD NOT PRESENT A HEALTH HAZARD. HOWEVER, USE OR PROCESSING OF THE PRODUCT IN A MANNER NOT IN ACCORDANCE WITH THE PRODUCT'S DIRECTIONS FOR USE MAY AFFECT THE PERFORMANCE OF THE PRODUCT AND MAY PRESENT POTENTIAL HEALTH AND SAFETY HAZARDS.

### 3.2 POTENTIAL HEALTH EFFECTS:

EYE CONTACT: NO HEALTH EFFECTS ARE EXPECTED.  
SKIN CONTACT: NO HEALTH EFFECTS ARE EXPECTED.  
INHALATION: NO HEALTH EFFECTS ARE EXPECTED.  
INGESTION: NO HEALTH EFFECTS ARE EXPECTED.

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS:

THIS SUBSTANCE DOES NOT LEACH METALS OR OTHER RCRA (RESOURCE CONSERVATION

AND RECOVERY ACT) LISTED TCLP (TOXIC CHARACTERISTIC LEACHING PROCEDURE) HAZARDOUS SUBSTANCES AT CONCENTRATIONS THAT WOULD MAKE THE PRODUCT A HAZARDOUS WASTE.

## 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: NO NEED FOR FIRST AID IS ANTICIPATED.

SKIN CONTACT: NO NEED FOR FIRST AID IS ANTICIPATED.

INHALATION: NO NEED FOR FIRST AID IS ANTICIPATED.

IF SWALLOWED: NO NEED FOR FIRST AID IS ANTICIPATED.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES:

AUTOIGNITION TEMPERATURE: 451 DEG. F

FLASH POINT: NO DATA AVAILABLE

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:

SEE HAZARDOUS DECOMPOSITION SECTION FOR PRODUCTS OF COMBUSTION. NONFLAMMABLE. WEAR FULL PROTECTIVE EQUIPMENT (BUNKER GEAR) AND A SELF-CONTAINED BREATHING APPARATUS (SCBA).

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

NOT APPLICABLE. NO UNUSUAL FIRE OR EXPLOSION HAZARDS ARE ANTICIPATED.

NON-FLAMMABLE: ORDINARY COMBUSTIBLE MATERIAL.

#### NOTE:

SEE STABILITY AND REACTIVITY (SECTION 10) FOR HAZARDOUS COMBUSTION AND THERMAL DECOMPOSITION INFORMATION.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### ACCIDENTAL RELEASE MEASURES:

COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE. RECLAIM UNDAMAGED PRODUCT.

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING:

DO NOT INGEST. DO NOT BREATHE THERMAL DECOMPOSITION PRODUCTS. AVOID SKIN CONTACT WITH HOT MATERIAL. AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY. THIS PRODUCT IS CONSIDERED TO BE AN ARTICLE WHICH DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER NORMAL USE CONDITIONS. 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 OUT OF DIRECT SUNLIGHT. NOT APPLICABLE. STORE UNDER NORMAL WAREHOUSE CONDITIONS.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS:

NOT APPLICABLE. PROVIDE APPROPRIATE LOCAL EXHAUST FOR MOLTEN OR EXTRUDED MATERIAL. PROVIDE APPROPRIATE LOCAL EXHAUST WHEN PRODUCT IS HEATED. GENERAL VENTILATION ADEQUATE BELOW 400 C. LOCAL EXHAUST RECOMMENDED ABOVE 400 C.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE):

#### 8.2.1 EYE/FACE PROTECTION:

AVOID EYE CONTACT. NOT APPLICABLE. AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY.

#### 8.2.2 SKIN PROTECTION:

WEAR APPROPRIATE GLOVES, SUCH AS NOMEX, WHEN HANDLING THIS MATERIAL TO PREVENT THERMAL BURNS. NOT APPLICABLE. AVOID SKIN CONTACT. AVOID PROLONGED OR REPEATED SKIN CONTACT. AVOID SKIN CONTACT WITH HOT MATERIAL. GLOVES ARE NOT REQUIRED. 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.

#### 8.2.3 RESPIRATORY PROTECTION:

UNDER NORMAL USE CONDITIONS, AIRBORNE EXPOSURES ARE NOT EXPECTED TO BE SIGNIFICANT ENOUGH TO REQUIRE RESPIRATORY PROTECTION.

8.2.4 PREVENTION OF SWALLOWING: NOT APPLICABLE. DO NOT INGEST.

8.3 EXPOSURE GUIDELINES: NONE ESTABLISHED

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC PHYSICAL FORM: ROLL OF TAPE

ODOR, COLOR, GRADE: TAN COLOR PAPER WITH UNPIGMENTED ADHESIVE

GENERAL PHYSICAL FORM: SOLID

AUTOIGNITION TEMPERATURE: 451 DEG. F

FLASH POINT: NO DATA AVAILABLE

FLAMMABLE LIMITS - LEL: NOT APPLICABLE

FLAMMABLE LIMITS - UEL: NOT APPLICABLE

BOILING POINT: NOT APPLICABLE

DENSITY: 0.84 - 0.88 G/ML

VAPOR DENSITY: NOT APPLICABLE

VAPOR DENSITY: NEGLIGIBLE

VAPOR PRESSURE: NOT APPLICABLE

VAPOR PRESSURE: NEGLIGIBLE

SPECIFIC GRAVITY: APPROXIMATELY 0.85 G/ML

pH: NOT APPLICABLE

MELTING POINT: NOT APPLICABLE

SOLUBILITY IN WATER: NOT APPLICABLE

SOLUBILITY IN WATER: NEGLIGIBLE

EVAPORATION RATE: NOT APPLICABLE

HAZARDOUS AIR POLLUTANTS: NO DATA AVAILABLE

VOLATILE ORGANIC COMPOUNDS:  $\leq 0.2\%$

PERCENT VOLATILE: NOT APPLICABLE

VOC LESS H<sub>2</sub>O & EXEMPT SOLVENTS:  $\leq 0.2\%$

VISCOSITY: NOT APPLICABLE

## SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE.

MATERIALS AND CONDITIONS TO AVOID: NONE KNOWN

ADDITIONAL INFORMATION: EXCESSIVE HEAT

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
HYDROCARBONS	NOT SPECIFIED
CARBON MONOXIDE	NOT SPECIFIED
CARBON DIOXIDE	NOT SPECIFIED

HAZARDOUS DECOMPOSITION:

UNDER RECOMMENDED USAGE CONDITIONS, HAZARDOUS DECOMPOSITION PRODUCTS ARE NOT EXPECTED. HAZARDOUS DECOMPOSITION PRODUCTS MAY OCCUR AS A RESULT OF OXIDATION, HEATING, OR REACTION WITH ANOTHER MATERIAL.

## SECTION 11: TOXICOLOGICAL INFORMATION

PLEASE CONTACT THE ADDRESS LISTED IN THE BEGINNING OF THIS MSDS FOR TOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

NOT DETERMINED.

NOT APPLICABLE.

CHEMICAL FATE INFORMATION:

NOT DETERMINED.

NOT APPLICABLE.

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

RECLAIM IF FEASIBLE. IF PRODUCT CAN'T BE RECLAIMED, DISPOSE OF WASTE

PRODUCT IN A SANITARY LANDFILL. ALTERNATIVELY, INCINERATE THE WASTE PRODUCT IN AN INDUSTRIAL, COMMERCIAL, OR MUNICIPAL INCINERATOR. DISPOSE OF WASTE PRODUCT IN A SANITARY LANDFILL. AS A DISPOSAL ALTERNATIVE, INCINERATE IN AN INDUSTRIAL OR COMMERCIAL FACILITY.

EPA HAZARDOUS WASTE NUMBER (RCRA): NOT REGULATED

SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL.

## SECTION 14: TRANSPORT INFORMATION

ID NUMBER(S) :

44-0004-0027-3, 44-0004-0449-9, 70-0000-0314-8, 70-0022-1808-2,  
70-0022-1809-0, 70-0022-1810-8, 70-0022-1811-6, 70-0022-1813-2,  
70-0022-1815-7, 70-0022-1824-9, 70-0022-1827-2, 70-0022-1828-0,  
70-0022-1829-8, 70-0060-1110-3, 70-0060-1938-7, 70-0060-1939-5,  
70-0060-1940-3, 70-0060-1942-9, 70-0060-7491-1, 70-0062-0820-4,  
70-0063-1924-1, 70-0063-1925-8, 70-0063-1926-6, 70-0063-1927-4,  
70-0063-2172-6, 70-0063-2200-5, 70-0063-2201-3, 70-0063-2202-1,  
70-0063-2203-9, 70-0063-2204-7, 70-0063-2232-8, 70-0063-2233-6,  
70-0063-2313-6, 70-0063-4673-1, 70-0063-4674-9, 70-0063-4681-4,  
70-0063-4691-3, 70-0063-4760-6, 70-0063-4761-4, 70-0063-4870-3,  
70-0063-7142-4, 70-0063-7233-1, 70-0063-7234-9, 70-0063-7275-2,  
70-0063-7278-6, 70-0063-7289-3, 70-0063-7313-1, 70-0063-7315-6,  
70-0063-7336-2, 70-0063-7359-4, 70-0063-7381-8, 70-0063-7386-7,  
70-0063-7389-1, 70-0063-7397-4, 70-0063-7405-5, 70-0063-7421-2,  
70-0063-7464-2, 70-0063-7468-3, 70-0063-7505-2, 70-0063-7506-0,  
70-0063-7508-6, 70-0063-7525-0, 70-0063-7582-1, 70-0063-7599-5,  
70-0063-7652-2, 70-0063-7778-5, 70-0063-7852-8, 70-0063-7853-6,  
70-0063-7854-4, 70-0063-7868-4, 70-0063-7944-3, 70-0063-7974-0,  
70-0063-8013-6, 70-0063-8045-8, 70-0063-8052-4, 70-0063-8087-0,  
70-0063-8093-8, 70-0063-8122-5, 70-0063-8224-9, 70-0063-8246-2

PLEASE CONTACT THE EMERGENCY NUMBERS LISTED IN THE BEGINNING OF THIS MSDS FOR TRANSPORTATION INFORMATION FOR THIS MATERIAL.

## 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: NO

DELAYED HAZARD: NO

STATE REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

**CHEMICAL INVENTORIES:**

THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA.

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.

THIS PRODUCT IS AN ARTICLE AS DEFINED BY TSCA REGULATIONS, AND IS EXEMPT FROM TSCA INVENTORY LISTING REQUIREMENTS.

CONTACT 3M FOR MORE INFORMATION.

INTERNATIONAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

WHMIS: HAZARDOUS

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	0
FLAMMABILITY	1
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:**

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SECTION 14: ID NUMBER HEADING WAS ADDED.  
SECTION 14: ID NUMBER(S) WAS ADDED.

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