Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Comply™ Steam Indicator Tape (1201, 1222, 1223, 1255)
MANUFACTURER: 3M
DIVISION: Infection Prevention Division

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

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

Issue Date: 05/15/12
Supercedes Date: 04/10/12

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Product Use:
Intended Use: To hold packs and indicate conditions for steam sterilization.

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Semi-bleached craft paper	None	35 - 40
Natural Rubber Saturant	Trade Secret	20 - 26
Natural Rubber Adhesive	None	20 - 24
BUTYLATED UREA-FORMALDEHYDE RESIN	68002-19-7	1 - 7
Acrylate Copolymer	None	2 - 4
LEAD CARBONATE HYDROXIDE	1319-46-6	<= 0.7
ETHYL ALCOHOL	64-17-5	<= 0.5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape
Odor, Color, Grade: Printed paper or tape, white, beige or blue.
General Physical Form: Solid
Immediate health, physical, and environmental hazards: This product contains dry Natural Rubber. Contains a chemical or chemicals which can cause cancer. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:
Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, 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:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.
NOTE: This product contains ethanol. There are data associating human consumption of alcoholic beverages (ethanol) with developmental toxicity. This is not an expected effect during the foreseeable use of this product.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

NOTE: This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified as human carcinogens by the International Agency for Research on Cancer, the U.S. National Toxicology Program, and the California Environmental Protection Agency (for purposes of Proposition 65). Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer.

Ingredient	C.A.S. No.	Class Description	Regulation
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
LEAD, INORGANIC COMPOUNDS	S~PB~I	Grp. 2A: Probable human carc.	International Agency for Research on Cancer
Mineral oils (untreated and mildly treated)	SEQ105339	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Mineral oils (untreated and mildly treated)	SEQ105339	Known human carcinogen	National Toxicology Program Carcinogens

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

The components labeled "Inorganic" do not biodegrade, but may be removed by other mechanisms. Tests show that the components labeled "Bioconcentrate" will bioconcentrate or accumulate in living organisms. **Statements for Lead Carbonate Hydroxide (1319-46-6) are based on data for Lead (7439-92-1).

Inorganic: Lead Carbonate Hydroxide (1319-46-6)

Bioconcentrate: Lead Carbonate Hydroxide (1319-46-6)

Lead is very toxic to aquatic organisms (0.1 mg/L < Lowest LC50, EC50, or IC50 < 1 mg/L).

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. No need for first aid is anticipated.
Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention. No need for first aid is anticipated.
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. This product contains Lead and should be kept out of the reach of children. If ingested immediately consult a physician.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	*No Data Available*
Flash Point	*Not Applicable*
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*

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

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated. See decomposition data in Section 10.

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.

6.2. Environmental precautions
Dispose of collected material as soon as possible.

Clean-up methods
Collect as much of the spilled material as possible.

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. Avoid skin contact with hot material. For industrial or professional use only. Do not ingest. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

7.2 STORAGE
Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS
Use with appropriate local exhaust ventilation. Provide appropriate local exhaust when product is heated.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection
Avoid eye contact.
The following eye protection(s) are recommended: Safety Glasses with side shields
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8.2.2 Skin Protection
Avoid skin contact. Avoid skin contact with hot material. 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. Wear heat insulating gloves when handling this material to prevent thermal burns.

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

8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
Semi-bleached craft paper	ACGIH	TWA	10 mg/m3	
Semi-bleached craft paper	OSHA	TWA, respirable fraction	5 mg/m3	
Semi-bleached craft paper	OSHA	TWA, as total dust	15 mg/m3	
ETHYL ALCOHOL	ACGIH	STEL	1000 ppm	
ETHYL ALCOHOL	OSHA	TWA	1900 mg/m3	
Lead	ACGIH	TWA, as Pb	0.05 mg/m3	
Lead	OSHA	TWA	0.05 mg/m3	29 CFR 1910.1025
LEAD, INORGANIC COMPOUNDS	ACGIH	TWA, as Pb	0.05 mg/m3	
LEAD, INORGANIC COMPOUNDS	OSHA	TWA	0.05 mg/m3	29 CFR 1910.1025
MINERAL OILS, HIGHLY-REFINED OILS	ACGIH	TWA, inhalable fraction	5 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:	Roll of Tape
Odor, Color, Grade:	Printed paper or tape, white, beige or blue.
General Physical Form:	Solid
Autoignition temperature	*No Data Available*
Flash Point	*Not Applicable*
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Boiling Point	*No Data Available*
Density	*Not Applicable*
Vapor Density	*Not Applicable*
Vapor Pressure	*Not Applicable*
Specific Gravity	*Not Applicable*
pH	*Not Applicable*
Melting point	*No Data Available*
Solubility In Water	*Not Applicable*
Evaporation rate	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Kow - Oct/Water partition coef	*Not Applicable*
Percent volatile	*Not Applicable*
VOC Less H2O & Exempt Solvents	*No Data Available*
Viscosity	*Not Applicable*

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:
10.1 Conditions to avoid
None known

10.2 Materials to avoid
None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Formaldehyde	At Elevated Temperatures
Carbon monoxide	Oxidation, heat or reaction
Carbon dioxide	Oxidation, heat or reaction

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.
Formaldehyde (CAS# 50-00-0). The 1222 tape contains a formaldehyde based resin. It is known that these resins may decompose under elevated temperatures and can potentially generate formaldehyde. While sampling inside a steam autoclave, indicated small amounts of formaldehyde could be generated during a sterilization cycle, no exposure to gaseous formaldehyde is expected at normal room temperature. At temperatures greater than 30° Celcius, estimated concentrations of formaldehyde in air during packing and off-gassing were calculated to be below 0.1 ppm. Since workplaces can vary, an exposure assessment should be conducted if the need to confirm these results for a specific workplace is identified.

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.
Dispose of waste consisting of only pre- and/or post-sterilization tape material in a permitted hazardous waste facility.

Additional Information: Dispose as appropriate for your waste stream in accordance with local, state and federal regulations.

EPA Hazardous Waste Number (RCRA): D008 (Lead)

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

SECTION 14:TRANSPORT INFORMATION

ID Number(s):
44-0022-3071-0, 70-2004-6651-7, 70-2004-6652-5, 70-2004-6653-3, 70-2007-0997-3, 70-2007-2176-2, 70-2007-2177-0, 70-2007-2178-8, 70-2007-2179-6, CT-0606-0186-2, CT-0606-0187-0, CT-0606-0188-8, CT-0608-9007-7, CT-0608-9012-7, CT-0608-9013-5

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):

Ingredient	C.A.S. No	% by Wt
LEAD CARBONATE HYDROXIDE (LEAD COMPOUNDS)	1319-46-6	<= 0.7
LEAD CARBONATE HYDROXIDE (LEAD, INORGANIC COMPOUNDS)	1319-46-6	<= 0.7

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

Ingredient	C.A.S. No.	Classification
Lead	7439921	*Female reproductive toxin
Lead	7439921	*Male reproductive toxin
Lead	7439921	**Carcinogen
Lead	7439921	*Developmental Toxin
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

* 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

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

Additional Information: Limits changed to comply with Canadian regulations.

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: 1 **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:
Section 7: Handling information 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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