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Material Safety Data Sheet

April 28, 2010

This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M Thermal Transfer Imaging Film VM-4134 White & VM-4414 Clear

MANUFACTURER: 3M

DIVISION: Commercial Graphics

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

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

Issue Date: 04/28/10

Supersedes Date: 09/24/07

Product Use: Intended Use - Film

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
PVC Film with Acrylate Adhesive	None	100

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: White Color, mild solvent odor / Clear film, slight odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, used 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.

Inhalations:

No health effects are expected.

Ingestion:

No health effects are expected.

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	<i>No Data Available</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

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

5.3 PROTECTION OF FIRE FIGHTERS

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

Unusable Fire and Explosion Hazards: Not applicable.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

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.

7.2 STORAGE

Store out of direct sunlight. Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

8.2 PERSONAL PROTECTION EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Not applicable. Avoid skin contact. Select and use gloved 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. Avoid breathing of dust created by cutting, sanding, grinding or machining.

8.2.4 Prevention of Swallowing

Do not ingest.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:	White Color, mild solvent odor	Clear film, slight odor
General Physical Form:	Solid	Solid
Autoignition temperature:	<i>No Data Available</i>	<i>Not Applicable</i>
Flash Point:	<i>Not Applicable</i>	<i>Not Applicable</i>
Flammable Limits - LEL:	<i>Not Applicable</i>	<i>Not Applicable</i>
Flammable Limits - UEL:	<i>Not Applicable</i>	<i>Not Applicable</i>
Boiling point:	<i>Not Applicable</i>	<i>Not Applicable</i>
Density:	<i>Not Applicable</i>	<i>No Data Available</i>
Vapor Density:	<i>Not Applicable</i>	<i>No Data Available</i>
Vapor Pressure:	<i>Not Applicable</i>	<i>Not Applicable</i>
Specific Gravity:	<i>Not Applicable</i>	<i>Not Applicable</i>
pH:	<i>Not Applicable</i>	<i>No Data Available</i>
Melting point:	<i>No Data Available</i>	<i>No Data Available</i>
Solubility In Water:	<i>Not Applicable</i>	<i>No Data Available</i>
Evaporation rate:	<i>No Data Available</i>	<i>Not Applicable</i>
Hazardous Air Pollutants:	<i>No Data Available</i>	<i>Not Applicable</i>
Volatile Organic Compounds:	<i>No Data Available</i>	<i>Not Applicable</i>
Percent volatile	<i>No Data Available</i>	<i>Not Applicable</i>
VOC Less H2O & Exempt Solvents	<i>No Data Available</i>	<i>Not Applicable</i>
Viscosity	<i>No Data Available</i>	<i>Not Applicable</i>

SECTION 10: STABILITY AND REACTIVITY**Stability:** Stable.**Materials and Conditions to Avoid:**

VM-4134 None Known

VM-4414 Not Applicable

Hazardous Polymerization: Hazardous polymerization will not occur.**Hazardous Decomposition or By-Products:****VM-4134** White Color

<u>Substance</u>	<u>Condition</u>
Hydrocarbons	Not Specified
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Oxides of Nitrogen	Not Specified

VM-4414 Clear

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

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

VM-4134 White Not applicable

VM-4414 Clear Not determined

CHEMICAL FATE INFORMATION

VM-4134 White Not applicable

VM-4414 Clear Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

VM-4134 White **Waste Disposal Method:** Dispose of waste product in a sanitary landfill. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

VM-4414 Clear **Waste Disposal Method:** Dispose of large quantities in a sanitary landfill.

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

SECTION 14: TRANSPORTATION INFORMATION**3M ID Number(s):**

VM-4134 White 73-3470-6278-0

VM-4414 Clear 75-3468-5663-8, 75-3469-5100-9, 75-3470-5134-6, 75-3470-6280-6, 75-3470-6281-4, 75-3470-6325

Summa ID Number(s):

VM-4134 White DC-400, DC-400S, DC-402, DC-402S, DC-408, DC-408S, DC-405 & DC-405S

VM-4414 Clear DC-401, DC-401S, DC-403, DC-403S, DC-409, DC-409S, DC-407 & DC-407S

Please contact Summa Inc at 1 (800) 527-7770 or 1 (206) 527-1050 for Transportation Information for this material

SECTION 15: REGULATORY INFORMATION**US FEDERAL REGULATIONS**

Contact 3M for more information.

STATE REGULATIONS

Contact 3M for more information.

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.

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

No revision information is available.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M AND SUMMA, INC. MAKES NOT WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF 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 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

End of Report