苏州柯裕电子材料有限公司

SuZhou Keyu Electronic Materials Co.,Ltd

承 认 书

客　户: 钰纬科技

(CUSTOMER)

品　名: KEYPAD EMI LABEL

(Parts Name)

料　号: 3MD694TH020 (M3533)

(Stuff No.)

日　期: 2026年3月19日

(DATE)

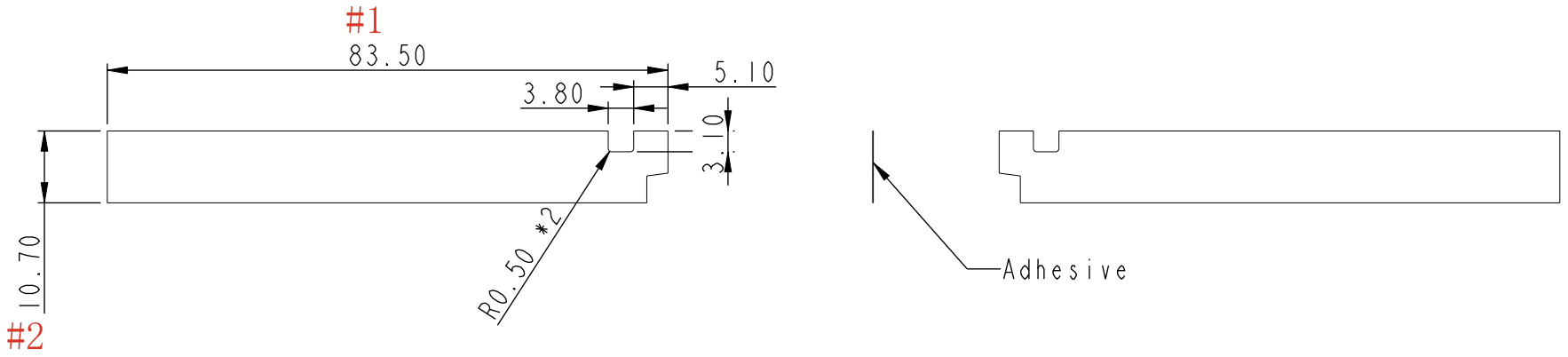
設計驗證
工程課
2026 -04- 17
發行
鈺緯科技開發股份有限公司

工　程	品　保	审　核
关成凯	薛晓兰	曹小峰

文 件 目 录

项目	文件名称	页次
1	承认书封面	1
2	目录	2
3	产品图面	3
4	FAI	4
5	SIP	5
6	包装计划书	6
7	物性表	7
8	ROHS资料	8~15
9	MSDS	16~24

REV.	DATE	DESCRIPTION	BY	APVD
-	-	FIRST RELEASE		-



NOTE:
1. Material: Polyester-Film-Electrical-Tape-3M1350F-1)
2. RoHS Compliant.
3. DIVA QC Inspection Document NO.:
   QWI-016 (Label)

設計驗證
工程課
2026 -04- 17
發行

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION			
		V		
	fine	medium	coarse	Rubber/Sponge/Mylar/Gasket
0.5 UP TO 3	±0.05	±0.1	±0.2	±0.2
OVER 3~6	±0.05	±0.1	±0.3	±0.2
OVER 6~30	±0.1	±0.2	±0.5	±0.25
OVER 30~120	±0.15	±0.3	±0.8	±0.3
OVER 120~400	±0.2	±0.5	±1.2	±0.5
OVER 400~1000	±0.3	±0.8	±2.0	±0.8
ANGLE ±1° (±1.75/100)				

THIRD ANGLE PROJECTION

UNITS: mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: QD2481A1-P
MATERIAL: Polyester-Film-Electrical-Tape-3M1350F-1)	TREATMENT:		
DSGD by Rex Tzeng	2025-05-28	PART NAME: Keypad EMI TAPE (QD2 3M Film Tape1350)	
CHK by Kane	2026-03-25	DIVA P/N: 3MD694TH020	
APVD by Laslie	2026-04-08	Qisda NO.: 4G.6G610.001	
APVD NO.: (M3533)	3D FILE NAME: 4G_6G610_001_KEYPAD_EMI_TAPE	DIVA Laboratories, Ltd.	

苏州柯裕电子材料有限公司

FAI 检验报告

客户名称	钰纬科技	品名	KEYPAD EMI LABEL
客户料号	3MD694TH020	日期	2026/3/19

序列	检验项目	规格标准		检测结果					检测方法	判定
				1	2	3	4	5		
1	材质	3M1350F-1		OK	OK	OK	OK	OK	SGS	OK
2	颜色	黄色		OK	OK	OK	OK	OK	目测	OK
3	尺寸(MM)	83.5	0.3	83.510	83.530	83.550	83.600	83.420	卡尺	OK
		10.7	0.2	10.690	10.670	10.650	10.600	10.620	卡尺	OK
		5.1	0.1	5.110	5.130	5.150	5.200	5.020	卡尺	OK
		3.8	0.1	3.790	3.770	3.750	3.700	3.720	卡尺	OK
		3.1	0.1	3.110	3.130	3.150	3.200	3.020	卡尺	OK
检测结果：			☑合格			☐不合格				
备注：										

检验员：李海燕

表单编号：KY-QR-Q-04-1.0

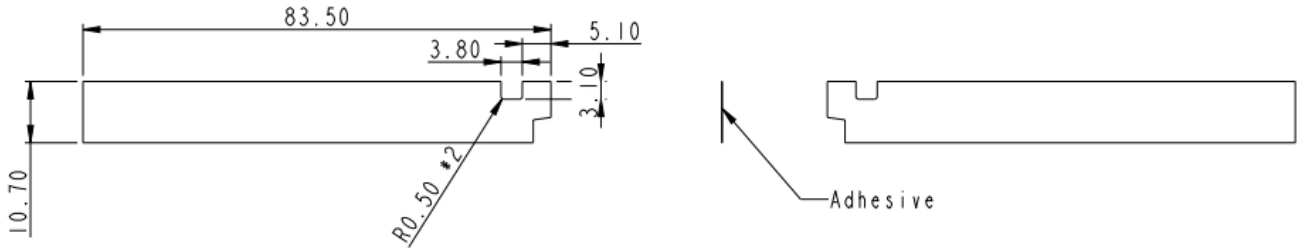
苏州柯裕电子材料有限公司

Suzhou Keyu Electronic Materials Co., Ltd.

检验标准书(SIP)

文件編號	SIP-QC-1164	产品名称	KEYPAD EMI LABEL			材　質	依图纸
		产品料号	3MD694TH020			版　本	B
制定日期	2021/11/25	修訂日期	2026/3/19	图面版本	A	page	1

抽样计划：MIL-STD-105E　LEVEL-Ⅱ加严.单次AQL（CR:0　MA：0.4　MI：0.65）



项目一：	成品检验				检验规格	抽样计划	允收水准	缺陷	使用仪器
	首件	制程	入库	出貨					
1	√	√	√	√	检验标准准书版本确认	检验频率	最新版本	MI	目視
2	√	√	√	√	材料确认	批/1次	依AQL0.4	MA	目視
2	√	√	√	√	尺寸确认（参照图纸）	5PCS/1h/次	依AQL0.4	MA	卡尺
3	√	√	√	√	外观确认	5PCS/1h/次	依AQL0.4	MA	目視
4									

1.材料上线前确认其材质，厚度参照SOP。

2.外观不可有未冲断、破损、胶偏、毛边等异常。

3.产品状态下泡棉屑、裁切屑严格按照要求管控

项目三：实配

确认产品包装是否完好，包装数量是否正确，产品标签是否和实物一致。

NO	品质履历	责任单位
1		
2		
3		
4		
5		

核准	曹小峰	審核	曹小峰	制定	薛晓兰

苏州柯裕电子材料有限公司

包装计划书

客户	钰纬科技	料号	3MD694TH020	包装方式	PE袋/纸箱	版本	A
		品名描述		KEYPAD EMI LABEL			

一.产品包装:

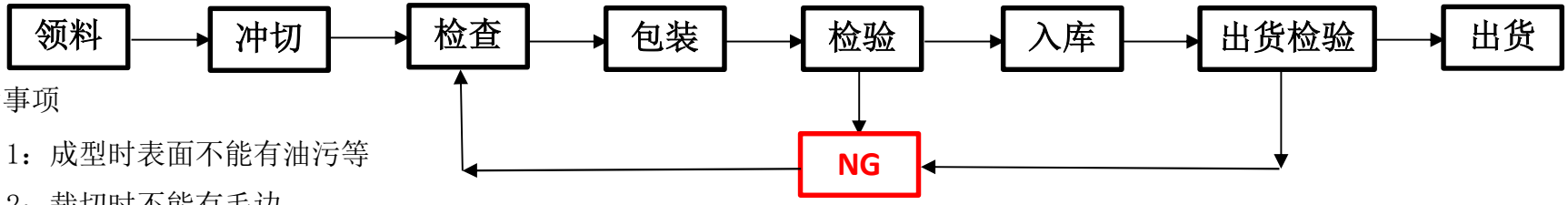
1.按产品大小进行整数包装;

2.如有单张产品个数不足，则以整包个数为准;

二.产品外箱标签要注明品名,料号,数量,日期;

三.箱内产品不可堆叠过高;

作业程序&注意事项



注意事项

1：成型时表面不能有油污等

2：裁切时不能有毛边

核准	审核	制定	制定日期	修订日期
曹小峰	曹小峰	关成凯	2026年3月19日	2026年3月19日

1350F

聚酯薄膜阻燃胶带

产品介绍

3M™ 1350F 是一种电气绝缘薄膜胶带，具有 UL510 的阻燃认证。3M™ 1350F 由 UL 认可的绝缘材料组成，具有 130°C 温度等级，其抗翘角和抗溶剂性能极佳，耐潮性好，光滑，适用于自动化的设备。

- UL 阻燃认证
- UL 130°C 温度等级认证
- 不含 PBDE 类阻燃剂
- 可印刷
- 抗溶剂且无须热固
- 有多种颜色可选择

颜色

黄，白，黑，红，绿和蓝色

产品认证

按照产品类别 OANZ2，UL 文件号 E17385，UL510 认可的产品，适用于温度不超过 130°C 使用，且具有阻燃性。

应用

线圈
电容器
线束绑扎
变压器
分马力马达

1350F 阻燃聚酯薄膜压敏胶带

性能	1350F-1(1mil 薄膜)	1350F-2(2mil 薄膜)
胶粘剂	丙烯酸压敏胶	丙烯酸压敏胶
基材	聚酯薄膜	聚酯薄膜
总厚度 [1]	2.5 mils / 0.063 mm	3.3 mils / 0.083 mm
颜色	黄/白/黑/红/绿/蓝	黄/白/黑/红/绿/蓝
温度等级	130°C (266°F)	130°C (266°F)
对钢板粘性 [1]	30oz/in (3.3N/10mm)	30oz/in (3.3N/10mm)
绝缘电阻 [1]	>1 x 10^{12} 欧姆	>1 x 10^{12} 欧姆
断裂强度 [1]	25 lbs./in (44N/10mm)	50 lbs./in (88N/10mm)
断裂伸长率 [1]	75%	110%
介电击穿(耐电压) [1]	5500 伏	7000 伏
电解腐蚀系数 [2]	1.0	1.0
UL 510 阻燃	Yes	Yes

注：1. ASTM-D-1000 测试方法
2. 3M 测试方法

Electrical Markets Division

© 3M 2005

Safety Data Sheet

Copyright,2023, 3M Company.
All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

This safety data sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the Regulation of Labelling and Hazard Communication of Hazardous Chemicals promulgated by Ministry of Labor 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.

Document Group:	07-7791-2	**Version Number:**	5.00
Issue Date:	2023/04/10	**Supercedes Date:**	2019/04/22

This Safety Data Sheet has been prepared in accordance with the 'Regulation of Labelling and Hazard Communication of Hazardous Chemicals'

SECTION 1: Identification

1.1. Chemicals Name
3M ELECTRICAL TAPE 1298, 1350, 1350F, 1350T, LRT-S/Y

Other Names: None

Product Identification Numbers

LH-A100-2959-8	80-6107-4864-4	80-6108-8530-5	80-6109-8229-2	80-6109-8230-0
80-6109-8324-1	80-6109-8325-8	80-6109-8326-6	80-6109-8327-4	80-6112-0391-2
80-6112-4099-7	80-6112-4101-1	80-6112-4102-9	80-6112-4103-7	80-6112-4127-6
80-6112-4128-4	80-6112-4129-2	80-6112-4130-0	80-6112-4136-7	80-6112-4138-3
80-6112-4146-6	80-6112-4147-4	80-6112-6873-3	80-6114-2011-0	80-6114-3324-6
80-6114-3728-8	80-6114-3753-6	80-6114-3754-4	80-6114-4075-3	FE-5100-9063-5
XE-0021-8753-4	XE-0021-9422-5	XE-0042-1630-7	XE-0042-1773-5	

1.2. Recommended use and restrictions on use

Recommended use
ELECTRICAL INSULATION

1.3. Details of the supplier of the safety data sheet
Name: 3M Taiwan LTD
ADDRESS: 3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City 115018, Taiwan
Telephone: (02) 2785-9338
Website: www.3m.com.tw

1.4. Emergency telephone number
Emergency Telephone:886-3-4783600

Fax number:(03) 475-0924, 475-0904

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
This product is considered to be an article and is exempt from GHS classification.

2.2. Label elements
SIGNAL WORD
Not applicable.

Symbols
Not applicable

Pictograms
Not applicable

2.3. Other hazards
None known

SECTION 3: Composition/information on ingredients

Pure Material: Not Applicable

This material is a mixture.

Chemical Properties: Refer to Section 9 of this SDS

Hazardous Ingredients: Not Applicable

Other Ingredient Names*	C.A.S. No.	% by Wt
POLYESTER FILM	None	40 - 50
FLAME RETARDANT ADHESIVE	Trade Secret	40 - 50

*The ingredients in this table are either: 1) not classified as hazardous, or 2) do not contribute to hazard classification according to CNS15030 based on defined classification thresholds.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin Contact:
No need for first aid is anticipated.

Eye Contact:
No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

If Swallowed:
Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Advice to protect the rescuer and special warning to doctors
Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment.

4.4. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters
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.

5.4. Special equipment for the protection of fire-fighters
No information is available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Not applicable.

6.2. Environmental precautions
Not applicable.

6.3. Methods and material for containment and cleaning up
Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe 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. Conditions for safe storage including any incompatibilities
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

Biological limit values
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

8.2. Exposure controls

8.2.1. Engineering controls
Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection
No chemical protective gloves are required.

Respiratory protection

Respiratory protection is not required.

8.3. Hygiene Measures
See Section 7.1 Precautions for safe handling

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Roll of Tape
Color	White, Yellow
Odor	Solvent
Odor threshold	*Not Applicable*
pH	*Not Applicable*
Melting point/Freezing point	*No Data Available*
Boiling point/Initial boiling point/Boiling range	*Not Applicable*
Flash Point	*Not Applicable*
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*Not Applicable*
Vapor Density and/or Relative Vapor Density	*Not Applicable*
Density	*No Data Available*
Relative Density	*No Data Available*
Water solubility	*No Data Available*
Solubility- non-water	*Not Applicable*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*Not Applicable*

Viscosity/Kinematic Viscosity	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Percent volatile	*Not Applicable*
VOC Less H2O & Exempt Solvents	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
No health effects are expected.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
No health effects are expected.

Chronic toxicity or long term toxicity

Additional Information:
This product, when used under reasonable conditions and in accordance with the 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.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation
For the component/components, either no data are currently available or the data are not sufficient for classification.

Serious Eye Damage/Irritation
For the component/components, either no data are currently available or the data are not sufficient for classification.

Sensitization:

Skin Sensitization
For the component/components, either no data are currently available or the data are not sufficient for classification.

Respiratory Sensitization
For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity
For the component/components, either no data are currently available or the data are not sufficient for classification.

Carcinogenicity
For the component/components, either no data are currently available or the data are not sufficient for classification.

Reproductive Toxicity

Reproductive and/or Developmental Effects
For the component/components, either no data are currently available or the data are not sufficient for classification.

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available

12.2. Persistence and degradability
No test data available

12.3. Bioaccumulative potential
No test data available

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

SECTION 14: Transport Information

14.1. International Regulations
Not hazardous for transportation.

UN No.: Not applicable
UN Proper shipping name: Not applicable
Transportation Class (IMO): Not applicable
Transportation Class (IATA): Not applicable
Packing Group: Not applicable
Marine pollutant: Not applicable

Specific transport measures and precautionary conditions: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Applicable regulations:
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Occupational Safety and Health Act

15.2. Global Inventory Status:
European Inventory of Existing Commercial Chemical Substances: Yes
Toxic Substances Control Act: Inventory list not applicable

SECTION 16: Other information

16.1. Literature references

Organization that prepared the SDS

Name:	3M Taiwan LTD
Address:	3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City 115018, Taiwan
Telephone Number:	886 3 478 3600 #388

Person who prepared the SDS

Title:	Senior Product Responsibility Liaison
Name:	Sunny Chang

Date that the SDS was prepared:
2023/04/10

Revision information:
Section 01: Address information was modified.
Section 01: Emergency telephone information was modified.
Section 01: Product identification numbers information was modified.
Section 02: TW GHS Classification information was deleted.
Section 02: TW Pictogram information was deleted.
Section 02: TW Classification Statements information was added.
Section 02: TW Pictogram Not Applicable information was added.
Section 03: Ingredient table information was deleted.
Section 03: Material is a mixture standard phrase information was deleted.
Section 04: First aid for eye contact information information was modified.
Section 04: First aid for ingestion (swallowing) information information was modified.
Section 04: First aid for inhalation information information was modified.
Section 04: Information on toxicological effects information was deleted.
Section 05: Fire - Advice for fire fighters information information was modified.
Section 08: Personal Protection - Skin/hand information information was modified.
Section 09: Color information was added.
Section 09: Odor information was added.
Section 09: Odor, color, grade information information was deleted.
Section 09: Percent Volatile information was added.
Section 09: Property description for optional properties information was deleted.
Section 09: Vapor Density Value information was added.

Section 09: Vapor density value information was deleted.
Section 09: Viscosity information information was deleted.
Section 09: Viscosity information was added.
Section 09: VOC Less H2O & Exempt Solvents information was added.
Section 09: Volatile Organic Compounds information was added.
Section 11: Acute Toxicity table information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 12: Component ecotoxicity information information was deleted.
Section 12: No Data text for bioccumulative potential information was added.
Section 12: No Data text for persistence and degradability information was added.
Section 12: Persistence and Degradability information information was deleted.
Section 12:Bioccumulative potential information information was deleted.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 15: Methods and Facilities Standards information was modified.
Section 16: UK disclaimer information was deleted.
Section 2: TW Symbol Text - Not applicable information was modified.
Taiwan Section 03: Hazardous Ingredient - N/A information was added.
Taiwan Section 03: Mixture information was added.
Taiwan Section 03: Not hazardous Ingredient table information was added.
Taiwan Section 03: Not Hazardous Statement information was added.
Taiwan Section 03: Pure Material information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Taiwan SDSs are available at www.3m.com.tw