# FOR YOU APPROVAL

# 承　　認　　書

•客戶名稱：鈺緯科技開發股份有限公司

•品名/產品描述：

(N0031) 3N12S150010/ TAPE(3M 1388W-1,W15*t0.05*L66m)
3N12S200010/ TAPE(3M 1388W-1,W20*t0.05*L66m)

•規格/材質：　15mm*66M & 20mmx66M /單面膠帶

•公　　差：裁切+/- 0.3mm

•日　　期：2024.08.16

•版　　本：　A

•客戶承認簽章

| APPROVED BY | CHECK BY | PREPARED BY |
|---|---|---|
| 設計驗證 工程課 2025 -07- 09 發行 鈺緯科技開發股份有限公司 | | |

原料廠商：台灣明尼蘇達礦業製造股份有限公司

經 銷 商：台灣樺島貿易有限公司

廣東東莞廠：樺 豐 貿 易 有 限 公 司

無錫廠：無錫樺仁電子有限公司

臺 北 市 建 國 北 路 二 段 258 巷 29 號

TEL：02-25941519　FAX：02-25915852

台灣樺島貿易有限公司 統一發票專用章 統一編號 12151474 負責人：莊黃秀琴 TEL:02-25941519 台北市 建國北路2段258巷29號1樓

# 台灣樺島貿易有限公司

# 承認書目錄(3M#1388W-1 TAPE)

**1. 產品介紹 …… 1**

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# 1388W-1 Tape

## Polyester Film Tape with Electrical Insulation Grade
## Non-Halogen Flame Retardant Acrylic Pressure-Sensitive Adhesive

### Product Description

3M™ 1388W-1 Tape is an electrical insulating polyester film tape which meets Non-Halogen requirement and flame retardant requirements according to UL 510 method. It offers smooth unwinding and is suitable for use on automated equipment.

- Bromide content<900ppm; Total halogen content<900ppm
- 3M NHFR logo printed on backing for identification
- Printable
- Solvent resistant without thermosetting
- Excellent Shelf Life
- UL certificate is proceeding

### Applications

3M 1388W-1 Tape is especially suited for applications such as transformers, wrapping coils, capacitors, shaded pole motors, fractional horsepower motors and various electronic component insulations.

### Typical Properties

| | |
|---|---|
| Adhesive: | White color electrical grade acrylic |
| Backing: | 1 mil polyester film |
| Total Thickness: | 2.0 mils / 0.05 mm |
| Dielectric Breakdown: | 5000 Volts |
| Insulation Resistance @ 23 C & 96% RH, 96 hrs: | >1.0x 10 E+12 ohms |
| Breaking Strength: | 25 lbs. / in (44N/10mm) |
| Elongation (% at break) : | 100 |
| Adhesion to Steel: | 30 oz/in (3.3 N/10mm) |
| Flame Retardant: | Pass UL510 flame test |
| CTI | Group 1 |
| ECF | 1.0 |

***Note: Typical properties are not recommended for specification purposes. Product specifications will be provided upon request.***

# Test Report

No.: ETR23A02158 Date: 19-Oct-2023 

3M TAIWAN LTD.
NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

**The following sample(s) was/were submitted and identified by the applicant as:**

| | | |
|---|---|---|
| Sample Submitted By | : | 3M TAIWAN LTD. |
| Sample Name | : | TAPE |
| Style/Item No. | : | 1388W-1 |

==========

| | | |
|---|---|---|
| Sample Receiving Date | : | 12-Oct-2023 |
| Testing Period | : | 12-Oct-2023 to 19-Oct-2023 |

**Test Requested** :
(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.

**Test Results** : Please refer to following pages.

**Conclusion** :
(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CHECK REPORT
PIN CODE: 2B441839

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**Test Part Description**

No.1 : WHITE TAPE

**Test Result(s)**

| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| Cadmium (Cd) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 100 |
| Lead (Pb) | | mg/kg | 2 | n.d. | 1000 |
| Mercury (Hg) | With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS. | mg/kg | 8 | n.d. | 1000 |
| Monobromobiphenyl | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Dibromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tribromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Decabromobiphenyl | | mg/kg | 5 | n.d. | - |
| **Sum of PBBs** | | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Pentabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Hexabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Heptabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Octabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Nonabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| **Sum of PBDEs** | | mg/kg | - | n.d. | 1000 |

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| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|---|---|---|---|---|---|
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Dibutyl phthalate (DBP) | | mg/kg | 50 | n.d. | 1000 |
| Diisobutyl phthalate (DIBP) | | mg/kg | 50 | n.d. | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | | mg/kg | 50 | n.d. | 1000 |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| Iodine (I) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. | - |

**Note：**

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated
5. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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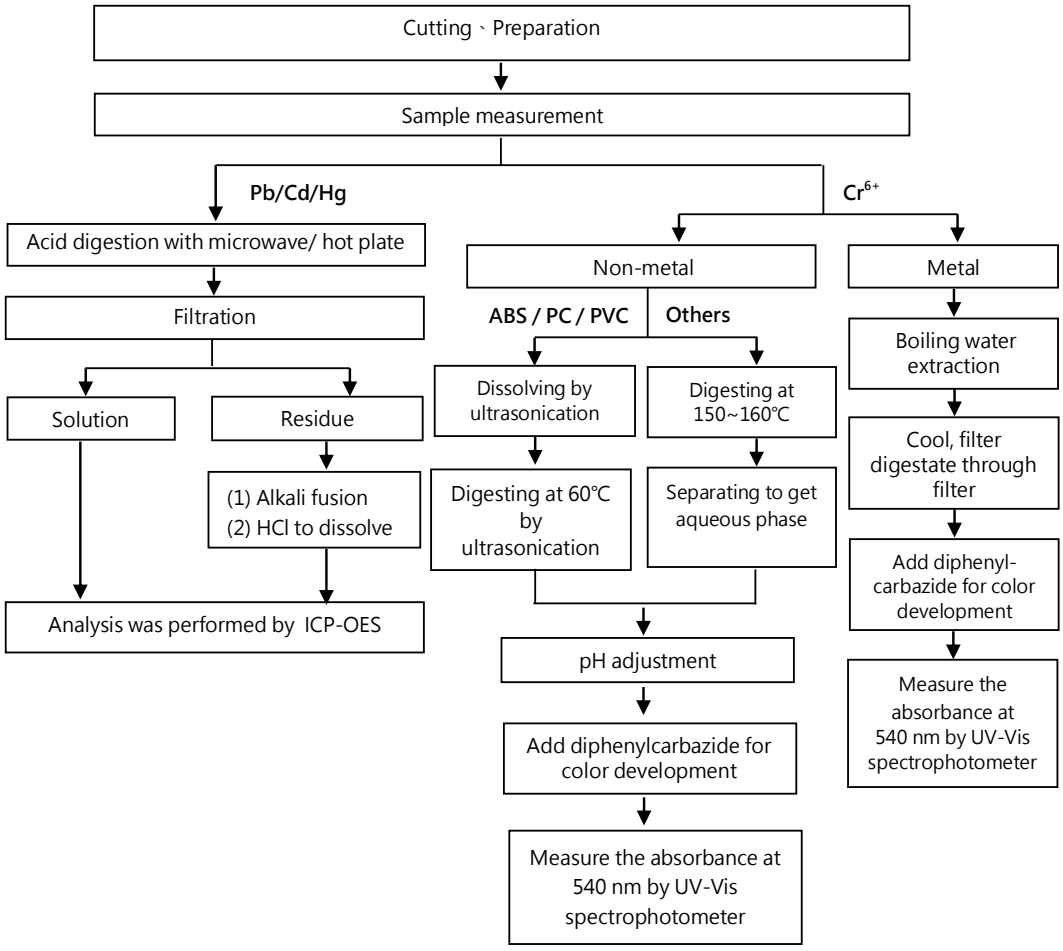
## Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

( $Cr^{6+}$ test method excluded )

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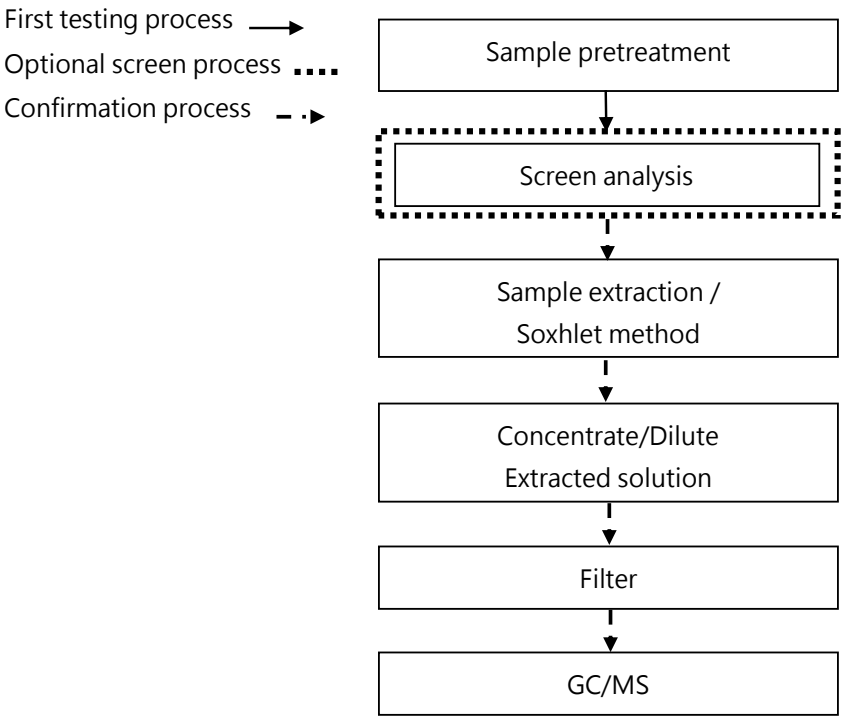
**Analytical flow chart – PBBs / PBDEs**

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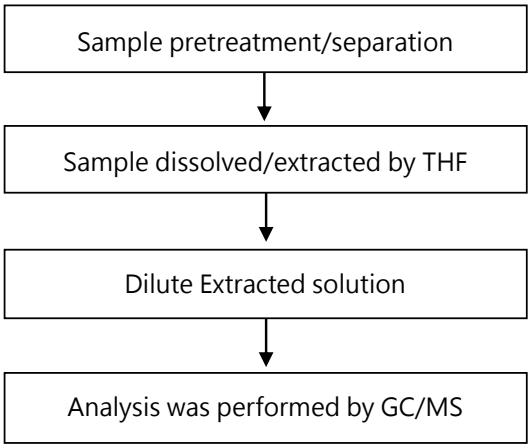
**Analytical flow chart - Phthalate**

**【Test method: IEC 62321-8】**

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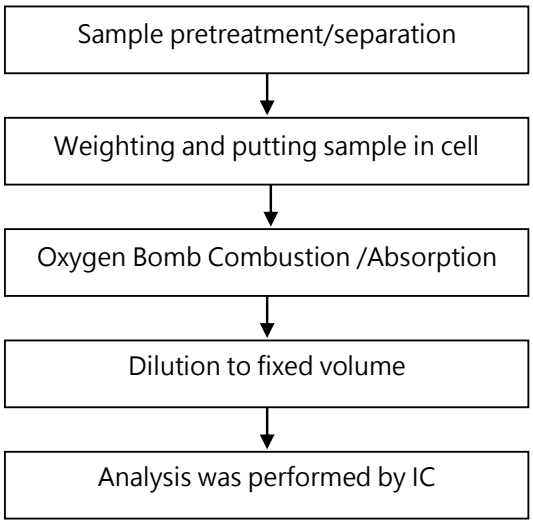
NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

**Analytical flow chart of Halogen**

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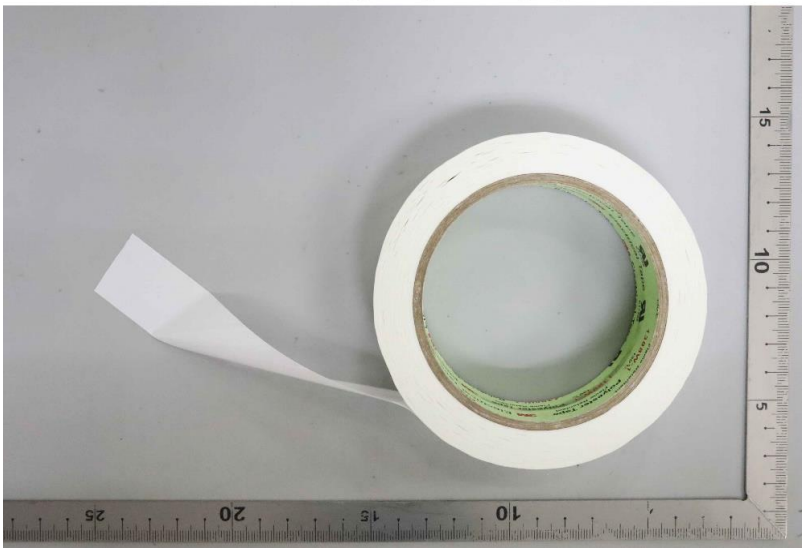
*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

**ETR23A02158**



** End of Report **

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3M Taiwan Ltd.
No. 66, Lane 800, Chung Shan S. Rd.,
Yang Mei Dist., Taoyuan City, Taiwan, R.O.C.
Tel: 886-3-4783600
Fax: 886-3-4750924

July 4, 2024

Dear Valued 3M Customer,

Re: Response to Request for Composition Information on Candidate List Substances

This letter is in response to your request for composition information on Candidate List Substances related to Art. 59.1 of Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as updated by ECHA on 27 Jun, 2024 (http://echa.europa.eu/web/guest/candidate-list-table).

You requested information regarding the following 3M product(s):

**3M Electrical Tape 5, 1350F series, 1350T series, 1351 series, 1318 series**
**3M Electrical Insulation Tape 1388Y-1, 1388B-1, 1388W-1 , 1388B-1 Matte**
**3M Electrical Insulation Tape 1098-1**
**3M NHFR Insulation Sheet IS-250-a, IS-300**
**3M Tape 44-A, 44D-A, 44T-A**
**3M PIA220, 92, 1205, 1218**
**3M Tape 1618, 1683, 1688**
**3M Tape 1181, 1194, 1245**
**3M EKA-4, EKA-6**

Due to the wide variation in content and format of such request forms, it is the policy of 3M to provide letters, such as this one, in response to requests for regulatory information.

On behalf of 3M Company, to the best of 3M's knowledge, the chemicals from the Candidate List as amended on 27 Jun, 2024 are not present at or above 0.1% in the product(s) listed above.

In preparing this response, 3M has relied in part on information provided by 3M suppliers.

I trust the above information is responsive to your request.

Please contact me if there are any additional questions.

Sincerely,

*Sunny Chang*
Product Stewardship, Specialist

In the event any Product is proven not to conform with the information in this document, then to the extent permitted by law, 3M's entire liability and Buyer's exclusive remedy, will be at 3M's option either: (i) replacement of Product with a conforming product, or (ii) refund of the purchase price paid by Buyer for each non-conforming Product, within a reasonable time after written notification of said non-conformance and return of said Product to 3M. 3M shall not under any circumstances be liable for direct, incidental, special, or consequential damages (including but not limited to loss of profits,

3M Taiwan Ltd.
No. 66, Lane 800, Chung Shan S. Rd.,
Yang Mei Dist., Taoyuan City, Taiwan, R.O.C.
Tel: 886-3-4783600
Fax: 886-3-4750924

revenue, or business) related to or arising out of this certification, including, the use, misuse or inability to use the Product. Unless stated otherwise in writing, the foregoing language cannot be waived, modified, or supplemented in any manner whatsoever.

# Safety Data Sheet

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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:** | 24-7251-2 | **Version Number:** | 2.01 |
| **Issue Date:** | 2022/10/06 | **Supercedes Date:** | 2019/04/23 |

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**
1388W-1 electrical insulation tape

**Other Names:**None

**Product Identification Numbers**
XE-0042-3264-3 XE-0042-3278-3

**1.2. Recommended use and restrictions on use**

**Recommended use**
Tape

**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 exempt from GHS classification according to Article 4 of Regulations for the Labeling and Hazard Communication of Hazardous Chemicals.

**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 Ingredient Names | C.A.S. No. | % by Wt |
|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | 25038-59-9 | 40 - 50 |
| Acrylic adhesive | Trade Secret | 25 - 35 |
| Organic phosphorous compound | Trade Secret | 5 - 15 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation:**
No need for first aid is anticipated.

**Skin Contact:**
Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**
No need for first aid is anticipated.

**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.

**5.3. Special protective actions for fire-fighters**
No special protective actions for fire-fighters are anticipated.

**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 |
| **Odor** | Acrylic |
| **Odor threshold** | *Not Applicable* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **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** | *Not Applicable* |
| **Relative Density** | *Not Applicable* |
| **Water solubility** | Nil |
| **Solubility- non-water** | *Not Applicable* |
| **Partition coefficient: n-octanol/ water** | *Not Applicable* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *Not Applicable* |
| **Viscosity/Kinematic Viscosity** | *Not Applicable* |
| **Volatile Organic Compounds** | *No Data Available* |
| **Percent volatile** | *Not Applicable* |
| **VOC Less H2O & Exempt Solvents** | *No Data Available* |

## 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 |
|---|---|
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |

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 known health effects.

**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 known health effects.

**Chronic toxicity or long term toxicity**

**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 |
| POLY(ETHYLENE TEREPHTHALATE) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| POLY(ETHYLENE TEREPHTHALATE) | Ingestion | Rat | LD50 > 5,000 mg/kg |

| | | | |
|---|---|---|---|
| Acrylic adhesive | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Acrylic adhesive | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Organic phosphorous compound | Dermal | Rat | LD50 > 2,000 mg/kg |
| Organic phosphorous compound | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | In vitro data | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | Human | No significant irritation |

**Sensitization:**

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | Human | Not classified |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | In Vitro | Not mutagenic |

**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**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | Ingestion | heart \| skin \| endocrine system \| bone, teeth, nails, and/or hair \| hematopoietic system \| liver \| immune system \| muscles \| nervous system \| eyes \| | Not classified | Rat | NOAEL Not available | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | kidney and/or bladder \| respiratory system | | | | |

**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

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|---|---|---|---|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | 25038-59-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Acrylic adhesive | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Organic phosphorous compound | Trade Secret | Green algae | Experimental | 72 hours | EC50 | >180 mg/l |
| Organic phosphorous compound | Trade Secret | Water flea | Experimental | 48 hours | EC50 | 100 mg/l |
| Organic phosphorous compound | Trade Secret | Zebra Fish | Experimental | 96 hours | LC50 | 100 mg/l |
| Organic phosphorous compound | Trade Secret | Green algae | Experimental | 72 hours | NOEC | 180 mg/l |
| Organic phosphorous compound | Trade Secret | Water flea | Experimental | 21 days | NOEC | 10 mg/l |
| Organic phosphorous compound | Trade Secret | Zebra Fish | Experimental | 28 days | NOEC | 100 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Organic phosphorous compound | Trade Secret | Activated sludge | Experimental | 3 hours | EC50 | 1,968 mg/l |

**12.2. Persistence and degradability**

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | 25038-59-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Acrylic adhesive | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Organic phosphorous compound | Trade Secret | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 1 %BOD/ThOD | OECD 301F - Manometric Respiro |
| Organic phosphorous compound | Trade Secret | Experimental Aquatic Inherent Biodegrad. | 28 days | Percent degraded | 7 %degraded | OECD 302C - Modified MITI (II) |
| Organic phosphorous compound | Trade Secret | Analogous Compound Hydrolysis | | Hydrolytic half-life | >30 years (t 1/2) | EC C.7 Hydrolysis at pH |

**12.3. Bioaccumulative potential**

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| POLY(ETHYLENE TEREPHTHALATE) | 25038-59-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Acrylic adhesive | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Organic phosphorous compound | Trade Secret | Analogous Compound BCF - Fish | 60 days | Bioaccumulation Factor | 76-190 | |
| Organic phosphorous compound | Trade Secret | Estimated Bioconcentration | | Log of Octanol/H2O part. coeff | -2 | |

**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. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## 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:**
Taiwan Chemical Substance Inventory: 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:**
2022/10/06

**Revision information:**
Section 01: Address information was modified.
Section 01: Emergency telephone information was modified.

Section 02: TW GHS Classification information was modified.
Section 03: Composition table % by Wt Column heading information was added.
Section 03: Composition table CAS No Column heading information was added.
Section 03: Ingredient table information was deleted.
Section 03: Material is a mixture standard phrase information was deleted.
Section 04: Information on toxicological effects information was deleted.
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: Solubility as text (non-water) 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 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 15: Methods and Facilities Standards information was modified.
Section 16: UK disclaimer information was deleted.
Taiwan Section 03: Ingredient table information was added.
Taiwan Section 03: Mixture information was added.
Taiwan Section 03: Pure Material information was added.

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