# Safety Data Sheet



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|---|---|---|---|
| **Document Group:** | 11-0058-5 | **Version Number:** | 9.00 |
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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

## SECTION 1: Identification

### 1.1. Product identifier
3M™ Hot Melt Adhesive 3764-AE, 3764-PG, 3764-TC, 3764-Q, 3764-B

**Product Identification Numbers**

| | | | | |
|---|---|---|---|---|
| 62-3764-7230-4 | 62-3764-7232-0 | 62-3764-7233-8 | 62-3764-7234-6 | 62-3764-9132-0 |
| 62-3764-9330-0 | 62-3764-9335-9 | 62-3764-9337-5 | 62-3764-9339-1 | 62-3764-9399-5 |
| 62-3764-9531-3 | 62-3764-9830-9 | | | |

### 1.2. Recommended use and restrictions on use

**Recommended use**
Adhesive, hot-melt adhesive

For Industrial or Professional use only

### 1.3. Supplier's details
**ADDRESS:** 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
**Telephone:** 03-7884 2888
**E Mail:** 3mmyehsr@mmm.com
**Website:** www.3M.com.my

### 1.4. Emergency telephone number
+60 03-7884 2888

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture
Not classified as hazardous according to Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

### 2.2. Label elements
**Signal word**
Not applicable

**Symbols**

Not applicable

**Pictograms**
Not applicable

**2.3. Other hazards**
Avoid contact with hot extruded molten material or applicator tip. Avoid direct eye exposure to vapors., In case of eye/skin contact with molten material, immediately flush with cold water and cover with a clean dressing. Do not attempt to remove molten material. Have burn treated by a physician., May cause thermal burns.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | 24937-78-8 | 50 - 70 |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | 68132-00-3 | 30 - 50 |
| Hydrocarbon Resin | 69430-35-9 | 20 - 40 |
| Polyethylene Polymer | 9006-26-2 | 1 - 10 |
| Polyolefin Wax | 8002-74-2 | 1 - 5 |
| Antioxidant | 6683-19-8 | < 2 |
| Maleic Anhydride | 108-31-6 | < 0.01 |

## 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:**
Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

**Eye Contact:**
Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate 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. 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 |
| Irritant Vapors or Gases | 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.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Ventilate the area with fresh air. Observe precautions from other sections.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from heat.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| Maleic Anhydride | 108-31-6 | ACGIH | TWA(inhalable fraction and vapor):0.01 mg/m3 | A4: Not class. as human carcin, Dermal/Respiratory Sensitizer |
| Maleic Anhydride | 108-31-6 | Malaysia OELs | TWA(8 hours):1 mg/m3(0.25 ppm) | |
| Polyolefin Wax | 8002-74-2 | ACGIH | TWA(as fume):2 mg/m3 | |
| Polyolefin Wax | 8002-74-2 | Malaysia OELs | TWA(as fume)(8 hours):2 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
CMRG : Chemical Manufacturer's Recommended Guidelines
Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Full Face Shield
Indirect Vented Goggles

**Skin/hand protection**
No chemical protective gloves are required.

**Respiratory protection**
None required.

**Thermal hazards**
Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Specific Physical Form:** | Waxy Solid |
| **Color** | White |
| **Odor** | Odorless |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point/Initial boiling point/Boiling range** | *Not Applicable* |
| **Flash Point** | 267.8 ºC [*Test Method:*Cleveland Open Cup] [*Details:*CONDITIONS: ASTM D-92-72] |
| **Evaporation rate** | *Not Applicable* |
| **Flammability (solid, gas)** | Not Classified |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapor Pressure** | *No Data Available* |
| **Vapor Density and/or Relative Vapor Density** | *No Data Available* |
| **Density** | 0.95 g/cm3 |
| **Relative Density** | 0.95 [*Ref Std:*WATER=1] |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity/Kinematic Viscosity** | *Not Applicable* |
| **Volatile Organic Compounds** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] |

| | |
|---|---|
| **Percent volatile** | 0 % weight |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **Molecular weight** | *No Data Available* |
| **Solids Content** | 100 % |

## 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.

## 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:**
During heating: Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

**Eye Contact:**
During heating: Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

**Ingestion:**
No known health effects.

**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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Ethylene-Vinyl Acetate Copolymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Ethylene-Vinyl Acetate Copolymer | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Hydrocarbon Resin | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Hydrocarbon Resin | Ingestion | Professional judgement | LD50 7,000 mg/kg |
| Polyethylene Polymer | Dermal | Rabbit | LD50 > 7,940 mg/kg |
| Polyethylene Polymer | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Polyolefin Wax | Dermal | Rat | LD50 > 5,000 mg/kg |
| Polyolefin Wax | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Antioxidant | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Antioxidant | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.95 mg/l |
| Antioxidant | Ingestion | Rat | LD50 > 10,250 mg/kg |
| Maleic Anhydride | Dermal | Rabbit | LD50 2,620 mg/kg |
| Maleic Anhydride | Ingestion | Rat | LD50 1,030 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | Professional judgement | No significant irritation |
| Hydrocarbon Resin | Professional judgement | No significant irritation |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | Professional judgement | No significant irritation |
| Polyethylene Polymer | Rabbit | No significant irritation |
| Polyolefin Wax | Rabbit | No significant irritation |
| Antioxidant | Rabbit | No significant irritation |
| Maleic Anhydride | Human and animal | Corrosive |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | Professional judgement | No significant irritation |

| | | |
|---|---|---|
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | Professional judgement | No significant irritation |
| Polyethylene Polymer | Rabbit | Mild irritant |
| Polyolefin Wax | Rabbit | No significant irritation |
| Antioxidant | Rabbit | Mild irritant |
| Maleic Anhydride | Rabbit | Corrosive |

**Sensitization:**

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Polyolefin Wax | Guinea pig | Not classified |
| Antioxidant | Human and animal | Not classified |
| Maleic Anhydride | Multiple animal species | Sensitizing |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| Maleic Anhydride | Human | Sensitizing |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Hydrocarbon Resin | In Vitro | Not mutagenic |
| Polyolefin Wax | In Vitro | Not mutagenic |
| Antioxidant | In Vitro | Not mutagenic |
| Antioxidant | In vivo | Not mutagenic |
| Maleic Anhydride | In vivo | Not mutagenic |
| Maleic Anhydride | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Polyolefin Wax | Ingestion | Rat | Not carcinogenic |
| Antioxidant | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Antioxidant | Ingestion | Not classified for female reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Antioxidant | Ingestion | Not classified for male reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Antioxidant | Ingestion | Not classified for development | Multiple animal species | NOAEL 1,000 mg/kg/day | during organogenesis |
| Maleic Anhydride | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for development | Rat | NOAEL 140 | during |

| | | | | | |
|---|---|---|---|---|---|
| | | | | mg/kg/day | organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Maleic Anhydride | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | Ingestion | liver | Not classified | Rat | NOAEL 4,000 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | heart | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 15 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | hematopoietic system \| liver \| immune system \| skin \| endocrine system \| bone, teeth, nails, and/or hair \| muscles \| nervous system \| eyes \| kidney and/or bladder \| respiratory system \| vascular system | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Antioxidant | Ingestion | endocrine system | Not classified | Rat | NOAEL 450 mg/kg/day | 2 years |
| Antioxidant | Ingestion | liver | Not classified | Dog | NOAEL 302 mg/kg/day | 90 days |
| Antioxidant | Ingestion | hematopoietic system \| nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Antioxidant | Ingestion | auditory system \| eyes | Not classified | Dog | NOAEL 302 mg/kg/day | 90 days |
| Maleic Anhydride | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| Maleic Anhydride | Inhalation | endocrine system \| hematopoietic system \| nervous system \| kidney and/or bladder \| heart \| liver \| eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| Maleic Anhydride | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| Maleic Anhydride | Ingestion | heart \| nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |
| Maleic Anhydride | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| Maleic Anhydride | Ingestion | skin \| endocrine system \| immune system \| eyes \| respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

**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 |
|---|---|---|---|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | 24937-78-8 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | 68132-00-3 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Hydrocarbon Resin | 69430-35-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Polyethylene Polymer | 9006-26-2 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Polyolefin Wax | 8002-74-2 | Green algae | Analogous Compound | 96 hours | EC50 | >1,000 mg/l |
| Polyolefin Wax | 8002-74-2 | Rainbow Trout | Analogous Compound | 96 hours | LC50 | >1,000 mg/l |
| Polyolefin Wax | 8002-74-2 | Water flea | Analogous Compound | 48 hours | EC50 | >10,000 mg/l |
| Antioxidant | 6683-19-8 | Water flea | Endpoint not reached | 24 hours | EC50 | >100 mg/l |
| Antioxidant | 6683-19-8 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Antioxidant | 6683-19-8 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Antioxidant | 6683-19-8 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Antioxidant | 6683-19-8 | Activated sludge | Experimental | 3 hours | IC50 | >100 mg/l |
| Antioxidant | 6683-19-8 | Redworm | Experimental | 56 days | NOEC | >=1,000 mg/kg (Dry Weight) |
| Maleic Anhydride | 108-31-6 | Bacteria | Experimental | 18 hours | EC10 | 44.6 mg/l |
| Maleic Anhydride | 108-31-6 | Rainbow Trout | Experimental | 96 hours | LC50 | 75 mg/l |
| Maleic Anhydride | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC50 | 74.4 mg/l |
| Maleic Anhydride | 108-31-6 | Water flea | Hydrolysis Product | 48 hours | EC50 | 93.8 mg/l |
| Maleic Anhydride | 108-31-6 | Water flea | Experimental | 21 days | NOEC | 10 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Maleic Anhydride | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC10 | 11.8 mg/l |

### 12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | 24937-78-8 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | 68132-00-3 | Modeled Biodegradation | 28 days | Biological Oxygen Demand | 0 %BOD/ThOD | Catalogic™ |
| Hydrocarbon Resin | 69430-35-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Polyethylene Polymer | 9006-26-2 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Polyolefin Wax | 8002-74-2 | Analogous Compound Biodegradation | 28 days | Biological Oxygen Demand | 40 %BOD/ThOD | OECD 301F - Manometric Respiro |
| Antioxidant | 6683-19-8 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 5 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Antioxidant | 6683-19-8 | Experimental Biodegradation | 26 days | Percent degraded | 45.2 %removal of DOC | OECD 303A - Simulated Aerobic |
| Antioxidant | 6683-19-8 | Modeled Hydrolysis | | Hydrolytic half-life (pH 7) | 2.06 years (t 1/2) | Episuite™ |
| Maleic Anhydride | 108-31-6 | Hydrolysis product Biodegradation | 25 days | Carbon dioxide evolution | >90 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Maleic Anhydride | 108-31-6 | Experimental Hydrolysis | | Hydrolytic half-life | 0.37 minutes (t 1/2) | |

### 12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| Ethylene-Vinyl Acetate Copolymer | 24937-78-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Naptha (Petroleum), Llight Steam-Cracked, Debenzenized, Polymers, Hydrogenated | 68132-00-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbon Resin | 69430-35-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyethylene Polymer | 9006-26-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyolefin Wax | 8002-74-2 | Modeled Bioconcentration | | Log of Octanol/H2O part. coeff | 10.2 | Episuite™ |
| Antioxidant | 6683-19-8 | Experimental BCF - Fish | 42 days | Bioaccumulation Factor | <2.3 | OECD305-Bioconcentration |
| Antioxidant | 6683-19-8 | Modeled Bioconcentration | | Log of Octanol/H2O part. coeff | 22.7 | |
| Maleic Anhydride | 108-31-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -2.61 | OECD 107 log Kow shke flsk mtd |

**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**

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

## SECTION 14: Transport Information

Not hazardous for transportation.

**Marine Transport (IMDG)**

**UN Number:**None assigned.
**Proper Shipping Name:**None assigned.
**Technical Name:**None assigned.
**Hazard Class/Division:**None assigned.
**Subsidiary Risk:**None assigned.
**Packing Group:**None assigned.
**Limited Quantity:**None assigned.
**Marine Pollutant:** None assigned.
**Marine Pollutant Technical Name:** None assigned.
**Other Dangerous Goods Descriptions:**
None assigned.

**Air Transport (IATA)**

**UN Number:**None assigned.
**Proper Shipping Name:**None assigned.
**Technical Name:**None assigned.
**Hazard Class/Division:**None assigned.
**Subsidiary Risk:**None assigned.
**Packing Group:**None assigned.
**Limited Quantity:**None assigned.
**Marine Pollutant:** None assigned.
**Marine Pollutant Technical Name:** None assigned.
**Other Dangerous Goods Descriptions:**
None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

## SECTION 15: Regulatory information

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

**Global inventory status**
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

## SECTION 16: Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

**3M Malaysia SDSs are available at www.3M.com.my**