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Material Safety Data Sheet

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1 Product Identification

Tradename:

3M FLEXIBLE PARTS COATING - AEROSOL/P.R.O. TECT FLEXIBLE PARTS
COATING, P/N 05904, 05906 (INACTIVE)

Product ID:

60-9800-1419-9 60-9800-1496-7 60-9800-2391-9

Intended Use of Product:

Coating

Division:

AUTOMOTIVE AFTERMARKET

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
ETHYL ALCOHOL	64-17-5	15.0 - 40.0
ETHYL ACETATE	141-78-6	15.0 - 40.0
PROPANE	74-98-6	5.0 - 10.0
BUTYL ALCOHOL	71-36-3	3.0 - 7.0
POLYURETHANE LACQUER	51293-82-4	3.0 - 7.0
DIMETHYL ETHER	115-10-6	3.0 - 7.0

TALC	14807-96-6	3.0 - 7.0
WATER	7732-18-5	1.0 - 5.0
RUTILE TITANIUM DIOXIDE	1317-80-2	1.0 - 5.0
METHYL ALCOHOL	67-56-1	0.5 - 1.5
N-BUTYL ACETATE	123-86-4	0.1 - 1.0
HEPTANE	142-82-5	0.1 - 1.0
METHYL ISOBUTYL KETONE	108-10-1	0.1 - 1.0

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3 Hazards Identification

Critical Hazards:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Inhalation may cause:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Simple Asphyxiation: signs/symptoms can include light-headedness, rapid heart beat, a feeling of suffocation and blue color.

Unconsciousness and death may occur if oxygen deprivation is severe or prolonged. Simple asphyxiation results from the displacement of oxygen in air to a concentration which is less than that necessary to maintain life.

Aerosol container contains flammable gas under pressure.

Flammable liquid and vapour.

WARNING: Contains a chemical which can cause cancer (1333-86-4)

(IARC possible human carcinogen 2B)

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate

medical attention.

Instructions for Skin Contact:

Flush skin with large amounts of water. If irritation persists, get medical attention.

Instructions for Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Instructions for Ingestion:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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5 Fire Fighting Measures

Flash point: < -6.7 C

Lower Explosive Limit (%): 1.40 %

Upper Explosive Limit (%): 19.00 %

Autoignition temperature: Not Available.

Suitable Extinguishing Media:

Carbon Dioxide; Dry chemical; Foam;

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or particulates;

Fire Fighting Procedures:

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.

NFPA: Aerosol Storage Level 2

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation,

and personal protective equipment.

Spill Response:

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in an approved container and seal.

Methods for Disposal:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

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7 Handling and Storage

Storage Requirements:

Store at temperatures below 120 degrees F (49 degrees C).

Incompatible Materials:

Heat;

Ventilation:

No data available.

Fire Prevention:

Aerosol container contains flammable gas under pressure.

Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

Do not pierce or burn container, even after use.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray. Indirect vented goggles Safety glasses with side shields

Hand Protection:

Wear appropriate gloves when handling this material.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Ingestion (Prevention):

Do not ingest. Keep out of the reach of children.

Recommended Ventilation:

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Ingredient Exposure Data

ETHYL ALCOHOL (64-17-5)

LD50 (rat, oral):: 7060 mg/kg

LC50 (rat, inhalation/4 hours):: No data available.

PIN (Product Identification Number):: UN 1170

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PARTS COATING, P/N 05904, 05906 (INACTIVE)

Inventory Certifications:: KE-13217 KECI - Korean Existing
Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

2-202 MITI - Ministry of International Trade and Industry (JAPAN)

2005786 EINECS - European Inventory of Existing Commercial
Chemical Substances

CICS - Chinese Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

AICS - Australian Inventory of Chemical Substances

TSCA - Toxic Substances Control Act (USA)

Exposure Limits:: ACGIH: TWA 1000 ppm (Table A4)

ACGIH: TWA 1880 mg/m3 (Table A4)

Regulatory Lists:: IARC (Group 1)

EU Hazard Symbols and Risk Phrases:: EU - Adaptation 21 (F; R:11)

ETHYL ACETATE (141-78-6)

Specific Ingredient Data: LD50 (rabbit, dermal): > 18 g/kg

LD50 (rat, oral):: 5600 mg/kg

LC50 (rat, inhalation/4 hours):: 19600 ppm
PIN (Product Identification Number):: 1173
Inventory Certifications:: KE-00047 KECI - Korean Existing
Chemicals Inventory
TSCA - Toxic Substances Control Act (USA)
PICCS - Philippines Inventory of Commercial Chemical Substances
2-726 MITI - Ministry of International Trade and Industry (JAPAN)
CICS - Chinese Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
AICS - Australian Inventory of Chemical Substances
2055004 EINECS - European Inventory of Existing Commercial
Chemical Substances
Exposure Limits:
: ACGIH: TWA 400 ppm
ACGIH: TWA 1440 mg/m3
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 25 (F,Xi;
R:11-36-66-67)
EU Nota:: 6

PROPANE (74-98-6)

Specific Ingredient Data: No data available.
LD50 (rat, oral):: No data available.
LC50 (rat, inhalation/4 hours):: No data available.
PIN (Product Identification Number):: UN 1978
Inventory Certifications:: TSCA - Toxic Substances Control Act (USA)
PICCS - Philippines Inventory of Commercial Chemical Substances
2-3 MITI - Ministry of International Trade and Industry (JAPAN)
2008279 EINECS - European Inventory of Existing Commercial
Chemical Substances
KE-29258 KECI - Korean Existing Chemicals Inventory

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PARTS COATING, P/N 05904, 05906 (INACTIVE)

CICS - Chinese Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
AICS - Australian Inventory of Chemical Substances
Exposure Limits:: ACGIH: TWA 2500 ppm
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 21 (F+; R:12)

BUTYL ALCOHOL (71-36-3)

Specific Ingredient Data: LD50 (rabbit, dermal): 4220 mg/kg
LD50 (rat, oral):: 2150 mg/kg
LC50 (rat, inhalation/4 hours):: 8000 ppm

PIN (Product Identification Number):: UN 1120
Inventory Certifications:: AICS - Australian Inventory of Chemical Substances
CICS - Chinese Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
2007516 EINECS - European Inventory of Existing Commercial Chemical Substances
KE-03867 KECI - Korean Existing Chemicals Inventory
2-3049 MITI - Ministry of International Trade and Industry (JAPAN)
PICCS - Philippines Inventory of Commercial Chemical Substances
TSCA - Toxic Substances Control Act (USA)
Exposure Limits:: 20 ppm ACGIH: TWA
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 25 (Xi,Xn; R:10-22-37- 38-41-67)
EU Nota:: 6,C

POLYURETHANE LACQUER (51293-82-4)
Specific Ingredient Data: No data available.
LD50 (rat, oral):: No data available.
LC50 (rat, inhalation/4 hours):: No data available.
Exposure Limits:: No data available.

DIMETHYL ETHER (115-10-6)
LD50 (rat, oral):: No data available.
LC50 (rat, inhalation/4 hours):: No data available.
PIN (Product Identification Number):: UN 1033
Inventory Certifications:: TSCA - Toxic Substances Control Act (USA)
2-360 MITI - Ministry of International Trade and Industry (JAPAN)
AICS - Australian Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
CICS - Chinese Inventory of Chemical Substances
PICCS - Philippines Inventory of Commercial Chemical Substances
2040658 EINECS - European Inventory of Existing Commercial Chemical Substances
KE-27704 KECI - Korean Existing Chemicals Inventory
Exposure Limits:
: AIHA: TWA 1000 ppm
CMRG: TWA 1000 ppm

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EU Hazard Symbols and Risk Phrases:: EU - Adaptation 21 (F+; R:12)

TALC (14807-96-6)

LD50 (rat, oral):: No data available.

LC50 (rat, inhalation/4 hours):: No data available.

Inventory Certifications:: KE-32773 KECI - Korean Existing Chemicals Inventory

DSL - Domestic Substances List (Canada)

TSCA - Toxic Substances Control Act (USA)

PICCS - Philippines Inventory of Commercial Chemical Substances

AICS - Australian Inventory of Chemical Substances

2388779 EINECS - European Inventory of Existing Commercial Chemical Substances

CICS - Chinese Inventory of Chemical Substances

Exposure Limits:: ACGIH: TWA 2 mg/m³ (Respirable) (Table A4)

CMRG: TWA 0.5 mg/m³ (specific form) as respirable dust

Regulatory Lists:: IARC (Group 1) Category: TALC CONTAINING ASBESTIFORM FIBERS

WATER (7732-18-5)

LD50 (rat, oral):: > 90 ml/kg

LC50 (rat, inhalation/4 hours):: No data available.

Exposure Limits:: No data available.

RUTILE TITANIUM DIOXIDE (1317-80-2)

LD50 (rat, oral):: No data available.

LC50 (rat, inhalation/4 hours):: No data available.

Inventory Certifications:: AICS - Australian Inventory of Chemical Substances

CICS - Chinese Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

2152822 EINECS - European Inventory of Existing Commercial Chemical Substances

KE-30681 KECI - Korean Existing Chemicals Inventory

1-558 MITI - Ministry of International Trade and Industry (JAPAN)

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

Exposure Limits:: 10 mg/m³ ACGIH: TWA (Table A4) (Particulates not otherwise classified)

METHYL ALCOHOL (67-56-1)

LD50 (rat, oral):: 5628 mg/kg

LD50 (dermal, rabbit):: 15800 mg/kg

LC50 (rat, inhalation/4 hours):: 64000 ppm

Inventory Certifications:: AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

KE-23193 KECI - Korean Existing Chemicals Inventory
CICS - Chinese Inventory of Chemical Substances
TSCA - Toxic Substances Control Act (USA)
2006596 EINECS - European Inventory of Existing Commercial
Chemical Substances
PICCS - Philippines Inventory of Commercial Chemical Substances
2-201 MITI - Ministry of International Trade and Industry (JAPAN)
Exposure Limits:: ACGIH: TWA 200 ppm (skin contact contributes to
exposure)
ACGIH: TWA 262 mg/m³ (skin contact contributes to exposure)
ACGIH: STEL 250 ppm (skin contact contributes to exposure)
ACGIH: STEL 328 mg/m³ (skin contact contributes to exposure)
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 28 (F,T;
R:11-23-24-25-39/23-39/24-39/25)

N-BUTYL ACETATE (123-86-4)

Specific Ingredient Data: LD50 (rabbit, dermal): > 5000 mg/kg
LC50 (rat, inhalation(aerosol)/4 hours): 160 ppm
LD50 (rat, oral):: 10768 mg/kg
LC50 (rat, inhalation/4 hours):: 2000 ppm
PIN (Product Identification Number):: 1123
Inventory Certifications:: AICS - Australian Inventory of Chemical
Substances
DSL - Domestic Substances List (Canada)
CICS - Chinese Inventory of Chemical Substances
PICCS - Philippines Inventory of Commercial Chemical Substances
TSCA - Toxic Substances Control Act (USA)
2046581 EINECS - European Inventory of Existing Commercial
Chemical Substances
2-731;2-735 MITI - Ministry of International Trade and Industry
(JAPAN)
KE-04179 KECI - Korean Existing Chemicals Inventory
Exposure Limits:: ACGIH: TWA 150 ppm
ACGIH: TWA 713 mg/m³
ACGIH: STEL 200 ppm
ACGIH: STEL 950 mg/m³
EU Nota:: 6

HEPTANE (142-82-5)

LD50 (rat, oral):: > 15000 mg/kg
LC50 (rat, inhalation/4 hours):: 25,000 ppm

PIN (Product Identification Number):: 1206
Inventory Certifications:: AICS - Australian Inventory of Chemical
Substances
CICS - Chinese Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
2055638 EINECS - European Inventory of Existing Commercial
Chemical Substances

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KE-18271 KECI - Korean Existing Chemicals Inventory
2-7 MITI - Ministry of International Trade and Industry (JAPAN)
PICCS - Philippines Inventory of Commercial Chemical Substances
TSCA - Toxic Substances Control Act (USA)
Exposure Limits:: 1640 mg/m3 ACGIH: TWA
400 ppm ACGIH: TWA
2050 mg/m3 ACGIH: STEL
500 ppm ACGIH: STEL
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 25 (F,N,Xi, Xn;
R:11-38- 50-53-65-67)
EU Nota:: 4,6,C

METHYL ISOBUTYL KETONE (108-10-1)

LD50 (rat, oral):: 2080 mg/kg
LC50 (rat, inhalation/4 hours):: 2000 - 4000 ppm
Inventory Certifications:: AICS - Australian Inventory of Chemical
Substances
CICS - Chinese Inventory of Chemical Substances
DSL - Domestic Substances List (Canada)
TSCA - Toxic Substances Control Act (USA)
PICCS - Philippines Inventory of Commercial Chemical Substances
2-542 MITI - Ministry of International Trade and Industry (JAPAN)
KE-24725 KECI - Korean Existing Chemicals Inventory
2035501 EINECS - European Inventory of Existing Commercial
Chemical Substances
Exposure Limits:: ACGIH: TWA 50 ppm
ACGIH: TWA 205 mg/m3
ACGIH: STEL 75 ppm
ACGIH: STEL 308 mg/m3
EU Hazard Symbols and Risk Phrases:: EU - Adaptation 25 (F,Xi,Xn;
R:11-20-36-37-66)

9 Physical and Chemical Properties

Physical form,Color,Odour: liquid in aerosol container;
dark gray; sweet/fruity odour;

Odour Threshold: No data available.

pH: Not applicable.

Boiling point/boiling range: -41.1 C (Aerosol)

Melting point/melting range: Not Available.

Vapour pressure: 40.0000 - 55.0000 mmHg
Compressed Gas;

Water Solubility: Nil

Partition coefficient (K o/w): No data available.

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Specific gravity: 0.899 Water=1

Vapour density: 1.00 - 3.00 Air=1

Volatile organic compounds: 87 % by weight

Evaporation rate: Not applicable

Viscosity: 70 - 80 centipoise

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

Heat;

Hazardous Decomposition:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or
particulates;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness,
swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Effects from Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Simple

Asphyxiation: signs/symptoms can include light-headedness, rapid heart beat, a feeling of suffocation and blue color. Unconsciousness and death may occur if oxygen deprivation is severe or prolonged.

Simple asphyxiation results from the displacement of oxygen in air to a concentration which is less than that necessary to maintain life. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

Ingestion is not a likely route of exposure to this product.

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Sensitization Information:

No data available.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer (1333-86-4)
(IARC possible human carcinogen 2B)

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:
Other Effects and Information:
Not determined.

13 Disposal Considerations

Product as Sold:
No data available.
Product after Use:
Do not puncture or burn cans in a household incinerator.
Product Packaging:
No data available.
Special Instructions:
Since regulations vary, consult applicable regulations or
authorities before disposal.

14 Transportation Information

Transportation of Dangerous Goods

TDG Classification: Consumer Commodity by ground
Do not ship by air.

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15 Regulatory Information

WHMIS Classification: A, B5, D2A

NOTE:

This product has been classified in accordance with the hazard
criteria of the Controlled Products Regulations (CPR) and the MSDS
contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the
following countries' chemical inventories, as noted:

DSL - Domestic Substances List (Canada)

EINECS - European Inventory of Existing Commercial Chemical
Substances

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:
Update Tradename (Obsolete product)

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