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Material Safety Data Sheet
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1 Product Identification

Tradename:
3M(TM) EC-1099 (INACTIVE)
Product ID:
62-1099-2640-2 62-1099-6541-8 62-1099-7541-7
Intended Use of Product:
Adhesive;
Division:
ENGINEERED ADHESIVES

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
ACETONE	67-64-1	60 - 70
ACRYLONITRILE-BUTADIENE POLYMER	9003-18-3	10 - 20
PHENOLIC RESIN	55185-45-0	5 - 10
PHENOL-FORMALDEHYDE POLYMER	9003-35-4	5 - 10
SALICYLIC ACID	69-72-7	1 - 5
ZINC OXIDE	1314-13-2	1 - 5

Ingredient Statements:

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE
24 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS
PRODUCT.

3 Hazards Identification

Critical Hazards:

Flammable liquid and vapour.

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

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:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5 Fire Fighting Measures

Flash point:	-17.8 C TCC
Lower Explosive Limit (%):	2.6 % by volume
Upper Explosive Limit (%):	12.8 % by volume
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. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Hydrogen Cyanide; Aldehydes; Ketones; Hydrocarbons; oxides of zinc;

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: Health 1

NFPA: Fire 3

NFPA: Reactivity 0
NFPA: Unusual Reaction Hazard none

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. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Ventilate the area with fresh air. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Cover with absorbent material. Collect as much of the spilled material as possible using non-sparking tools. Place in an approved container and seal.

Methods for Disposal:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Dispose of waste product in a facility permitted to accept chemical waste.

7 Handling and Storage

Storage Requirements:

Keep container closed when not in use.

Incompatible Materials:

Strong oxidizing agents;

Ventilation:

No data available.

Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

Explosion Prevention:

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

Use Instructions:

Keep container tightly closed.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact. The following should be worn alone or in combination, as appropriate, to prevent eye contact: Indirect vented goggles; Safety glasses with side shields

Hand Protection:

Wear appropriate gloves when handling this material. The following glove material(s) are recommended: butyl rubber; polyethylene/ethylene vinyl alcohol; polytetrafluoroethylene (teflon);

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid prolonged breathing of vapours. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: half-mask organic vapour respirator;

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. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Ingredient Exposure Data

ACETONE (67-64-1)

LD50 (rat, oral) 5800 mg/kg
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 500 ppm (Table A4)
ACGIH: TWA 1780 mg/m3 (Table A4)
ACGIH: STEL 750 ppm (Table A4)
ACGIH: STEL 2380 mg/m3 (Table A4)

ACRYLONITRILE-BUTADIENE POLYMER (9003-18-3)

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.

PHENOLIC RESIN (55185-45-0)

Specific Ingredient Data

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No data available.

LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

PHENOL-FORMALDEHYDE POLYMER (9003-35-4)

Specific Ingredient Data

No data available.
LD50 (rat, oral) > 5 g/kg
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

SALICYLIC ACID (69-72-7)

LD50 (rat, oral) 891 mg/kg

LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
No data available.
ZINC OXIDE (1314-13-2)
LD50 (rat, oral) 630 mg/kg
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 5 mg/m3 as fume;
ACGIH: TWA 5 mg/m3 (Respirable) as dust
ACGIH: STEL 10 mg/m3 as fume;

9 Physical and Chemical Properties

Physical form,Color,Odour: Liquid; light tan colour;
ketone odour;
Odour Threshold: No data available.
pH: Not available
Boiling point/boiling range: 55.6 C (Acetone)
Melting point/melting range: Not available
Vapour pressure: 180 mmHg at 20 C
Water Solubility: Slight
Specific gravity: 0.89 Water=1
Vapour density: 2 Air=1
Volatile organic compounds: 0 gms/liter SCAQ443
Evaporation rate: 1.9 Ether=1
Viscosity: Approximately 2150 centipoise
Percent Volatile: No data available.

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10 Stability and Reactivity

Conditions to Avoid:
None known.
Materials to Avoid:
Strong oxidizing agents;
Hazardous Decomposition:
Carbon monoxide and carbon dioxide; Hydrogen Cyanide; Aldehydes;
Ketones; Hydrocarbons; oxides of zinc;
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:
Mild Skin Irritation (after prolonged or repeated contact):
signs/symptoms can include redness, swelling, and itching.
Effects from Inhalation:
Central Nervous System Depression: signs/symptoms can include

headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

Ingestion may cause: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD. THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Chemical (Aspiration) Pneumonitis: Signs/symptoms can include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and possibly death.

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

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

13 Disposal Considerations

Product as Sold:

No data available.

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
Class/Division: 3

International Dangerous Goods Classification

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15 Regulatory Information

WHMIS Classification: B2, D2B

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:

- FDA - Food and Drug Administration Act
- TSCA - Toxic Substances Control Act (USA)
- AICS - Australian Inventory of Chemical Substances
- 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)

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user

evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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