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Material Safety Data Sheet
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1 Product Identification

Tradename:

3M(TM) SCOTCH-GRIP(TM) HIGH PERFORMANCE CONTACT ADHESIVE 1357-L

Product ID:

62-1390-5530-5 62-1390-7530-3 62-1390-7535-2 62-1390-8535-1
62-1390-9535-0 62-1390-9536-8

Intended Use of Product:

Contact adhesive

Division:

INDUSTRIAL ADHESIVES AND TAPES

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
NAPHTHA SOLVENT LIGHT	64741-84-0	30 - 40
ACETONE	67-64-1	20 - 30
HEXANE	110-54-3	10 - 20
METHYL ETHYL KETONE	78-93-3	7 - 13
POLYCHLOROPRENE	9010-98-4	7 - 13
MAGNESIUM RESINATE	68611-24-5	7 - 13
TOLUENE	108-88-3	3 - 7
CYCLOHEXANE	110-82-7	1 - 2
ZINC OXIDE	1314-13-2	0.1 - 0.5

NOTE:

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Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Extremely flammable liquid and vapour.

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

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

Contains Methyl Ethyl Ketone (CAS# 78-93-3) which can cause birth defects or other reproductive harm.

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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5 Fire Fighting Measures

Flash point: -25.6 C TCC
(Petroleum Distillate)

Lower Explosive Limit (%): 1 % by volume

Upper Explosive Limit (%): 12.8 % by volume

Autoignition temperature: Not Available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

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 - During Combustion;

Carbon dioxide - During Combustion;

Hydrogen Chloride - During Combustion;

Chlorine During Storage

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health	2
NFPA: Fire	4
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:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For

larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. 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. Remember, adding an absorbent material does not remove

a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids;

Store away from heat;

Store out of direct sunlight.

Store away from oxidizing agents.

Ventilation:

Keep container in well-ventilated area.

Fire Prevention:

Extremely flammable liquid and vapour. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not spray near flames or sources of ignition.

Explosion Prevention:

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

Static Prevention:

Avoid static discharge.

Use Instructions:

Keep container tightly closed. Contents may be under pressure, open carefully. Avoid eye contact with vapours, mists, or spray. Avoid contact with oxidizing agents.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

butyl rubber;

nitrile rubber;

Skin Protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapor cartridges.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Provide appropriate local exhaust ventilation on open containers.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

NAPHTHA SOLVENT LIGHT (64741-84-0)

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.

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)

HEXANE (110-54-3)

LD50 (rat, oral) 28710 mg/kg

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LC50 (rat, inhalation/4 hours) 38,500 ppm

Exposure Limits

ACGIH: TWA 176 mg/m3 (skin contact contributes to exposure)
ACGIH: TWA 50 ppm (skin contact contributes to exposure)

METHYL ETHYL KETONE (78-93-3)

LD50 (rat, oral) 2737 mg/kg
LC50 (rat, inhalation/4 hours) 11300 ppm

Exposure Limits

ACGIH: TWA 200 ppm
ACGIH: TWA 590 mg/m3
ACGIH: STEL 300 ppm
ACGIH: STEL 885 mg/m3

POLYCHLOROPRENE (9010-98-4)

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.

MAGNESIUM RESINATE (68611-24-5)

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.

TOLUENE (108-88-3)

Specific Ingredient Data

LC50 (female rat, inhalation/4 hours vapour): 19.0 mg/l
 LD50 (rat, oral) 636 mg/kg
 LD50 (dermal, rabbit) 14100 uL/kg
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 50 ppm (skin contact contributes to exposure) (Table A4)

CMRG: STEL 75 ppm (skin contact contributes to exposure)

CYCLOHEXANE (110-82-7)

LD50 (rat, oral) 12,705 mg/kg
 LC50 (rat, inhalation/4 hours) 13.9 mg/l

Exposure Limits

ACGIH: TWA 100 ppm

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;

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 9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; grey-green colour; sweet-sour 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 (< 10 %)
Specific gravity:	0.8 Water=1
Vapour density:	3 Air=1
Volatile organic compounds:	464 gms/liter Calculated per SCAQMD Rule 443.1
Evaporation rate:	>= 2 Ether=1

Viscosity: Approx 50 centipoise
Percent Volatile: Approximately 81 % by weight

10 Stability and Reactivity

Conditions to Avoid:

Heat;
Store out of direct sunlight.

Materials to Avoid:

Store away from acids;
Store away from oxidizing agents.

Hazardous Decomposition:

Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Hydrogen Chloride - During Combustion;
Chlorine During Storage

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: Signs/symptoms can include localized redness, swelling, itching, and dryness.
May be absorbed through skin and cause target organ effects.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects.
Respiratory Tract Irritation: Signs/symptoms may include cough,

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sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects.

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

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

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

Contains Methyl Ethyl Ketone (CAS# 78-93-3) which can cause birth defects or other reproductive harm.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Methyl ethyl ketone has been shown to potentiate the neurotoxic effects of n-hexane.

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12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

Other Effects and Information:

Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimized to the extent possible.

13 Disposal Considerations

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

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: 62-1390-7535-2
 Limited Quantity;
 62-1390-5530-5
 Consumer Commodity

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62-1390-8535-1
 Regulated Material.
 ADHESIVES
 3
 UN Number: UN 1133
 Packing Group: II

Special Information:: Contact 3M for more information.
 These transportation classifications are provided as a customer service. As the shipper 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 original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification: B2, D2A, 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:

- TSCA - Toxic Substances Control Act (USA)
- DSL - Domestic Substances List (Canada)
- AICS - Australian Inventory of Chemical Substances
- EINECS - European Inventory of Existing Commercial Chemical Substances

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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Update Tradename

Division name change.

Revised Intended Use of Product

Section 2 - Composition/Information on Ingredients;

Section 3 - Hazards Identification - Critical Hazards;

Section 4 - First Aid Measures;

Section 5 - Fire Fighting Measures

Section 6 - Accidental Release Measures;

Section 7 - Handling and Storage;

Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;

Section 10 - Stability and Reactivity;

Section 11 - Toxicological Information;

Section 12 - Ecological Information

Section 13 - Disposal Considerations;

TDG classification change.

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