

(11204)

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 Material Safety Data Sheet
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 1 Chemical Product and Company Identification

Tradename:

3M SCOTCH-WELD NEOPRENE HIGH PERFORMANCE CONTACT ADHESIVE 1357L

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

APPROVED MATERIAL

FEB 13 2014

MSDS # 11204

APPROVED BY 

 2 Hazards Identification

Critical Hazards:

Extremely flammable liquid and vapour.

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest. May be absorbed following inhalation and cause target organ effects. May be absorbed following ingestion and cause target organ effects.

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

WARNING: This product contains a chemical which has some evidence to indicate the possibility of adverse effects on reproductive development and/or fertilization. (110-54-3)

n-Hexane (CAS 110-54-3) - Peripheral neuropathy has been observed following occupational exposure to n-hexane levels of 30 ppm and greater for 2 months to 5 years.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
PETROLEUM DISTILLATE	64741-84-0	15 - 40
ACETONE	67-64-1	10 - 30
N-HEXANE	110-54-3	10 - 30
METHYL ETHYL KETONE	78-93-3	5 - 10
MAGNESIUM RESINATE	68037-42-3	5 - 10
POLYCHLOROPRENE	9010-98-4	5 - 10
TOLUENE	108-88-3	3 - 7
CYCLOHEXANE	110-82-7	1 - 5
ZINC OXIDE	1314-13-2	0.1 - 1.0
ROSIN	8050-09-7	0.1 - 1.0

NOTE:

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

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water for at least 30 minutes. Get immediate medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 20 minutes or until chemical is removed. 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. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration. Get immediate medical attention.

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 5 Fire Fighting Measures

Flash point:	□ -25.6 C CC (Acetone)
Lower Explosive Limit (%):	1 % by volume
Upper Explosive Limit (%):	12.8 % by volume
Autoignition temperature:	404 C (Methyl ethyl ketone)

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:

Hydrocarbons - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

Extremely flammable liquid and vapour.

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	3
NFPA: Reactivity	0

NFPA: Unusual Reaction Hazard

none

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic

properties of combustion or decomposition products that are known to be generated in significant quantities.

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6 Accidental Release Measures

Personal Precautions:

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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Environmental Procedures

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Contain spill. 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. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Seal the container.

Spill Response:

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.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from heat;
Store out of direct sunlight.
Sparks and/or Flames;
Store away from acids;

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Store away from oxidizing agents.

Ventilation:

Keep container in well-ventilated area.

Use Instructions:

For industrial or professional use only. Not intended for consumer sale or use. Vapours may ignite explosively. May cause flash fire. Prevent build-up of vapours - open all windows and doors. Maintain vapour concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapours may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc. Extinguish pilot lights and turn off stoves, ovens, and other gas and electric appliances (space and water heaters, furnaces, etc.), electric motors, and other sources of ignition during adhesive use and until all vapours are gone; i.e., until the odour of vapours at the floor level has disappeared. Do not use electric light switches. Do not generate static sparks (such as by walking on carpet, etc.) Use the same precautions in the work area and all connected areas. Be sure that any people in the area follow the precautions. Attach a copy of the precautions to any other container to which this product may be transferred. Avoid prolonged breathing of vapours. Avoid eye and skin contact. Keep container closed when not in use. If work area conditions prevent compliance with any of the above precautions, do not use the product. Keep out of the reach of children. Keep container tightly closed.

 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;

polyethylene/ethylene vinyl alcohol;

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.

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Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Do not breathe vapours.

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 vapour 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 at transfer points.

Provide appropriate local exhaust ventilation on open containers.

Use in an enclosed process area is recommended.

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

Do not use in a confined area or areas with little or no air movement.

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

Ingredient Exposure Data

PETROLEUM DISTILLATE (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) 29,900 ppm
 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)
 750 ppm ACGIH: STEL 500 ppm ACGIH: TWA

N-HEXANE (110-54-3)
 LD50 (rat, oral) 28710 mg/kg
 LC50 (rat, inhalation/4 hours) 48000 ppm
 Exposure Limits
 ACGIH: TWA 50 ppm (skin contact contributes to exposure)
 50 ppm ACGIH: TWA; skin contact contributes to exposure 50 ppm

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ACGIH: TWA; skin contact contributes to exposure; Category: Hexane

METHYL ETHYL KETONE (78-93-3)
 LD50 (rat, oral) 2737 mg/kg
 LD50 (dermal, rabbit) 6480 mg/kg
 LC50 (rat, inhalation/4 hours) 33,200 mg/m3
 Exposure Limits
 ACGIH: TWA 200 ppm
 ACGIH: STEL 300 ppm
 300 ppm ACGIH: STEL 300 ppm ACGIH: STEL; Category: 2-Butanone
 200 ppm ACGIH: TWA 200 ppm ACGIH: TWA; Category: 2-Butanone

MAGNESIUM RESINATE (68037-42-3)
 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.

POLYCHLOROPRENE (9010-98-4)
 LD50 (rat, oral) > 40 g/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 No data available.

TOLUENE (108-88-3)
 LD50 (rat, oral) 636 mg/kg
 LD50 (dermal, rabbit) 14100 uL/kg
 LC50 (rat, inhalation/4 hours) LC50 (female rat,
 inhalation/4 hours vapour):
 19.0 mg/l

Exposure Limits
 ACGIH: TWA 20 ppm (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 100 ppm ACGIH: TWA

ZINC OXIDE (1314-13-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

ACGIH: TWA 2 mg/m3 (Respirable)

ACGIH: STEL 10 mg/m3 (Respirable)

ROSIN (8050-09-7)

LD50 (rat, oral) 7600 mg/kg

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

Exposure Limits

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 ACGIH: TWA 0 ppm Sensitizer;

 9 Physical and Chemical Properties

Physical form, Color, Odour:	Liquid; grey-green colour; sweet-sour odour
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	>= 80 C
Melting point/melting range:	Not applicable
Vapour pressure:	<= 185 mmHg at 20 C
Water Solubility:	Slight (< 10 %)
Partition coefficient (K o/w):	Not Available
Specific gravity:	□ 0.8 Water=1
Vapour density:	3 Air=1
Volatile organic compounds:	□ 703 gms/liter (EU VOC content)
Evaporation rate:	>= 2 Ether=1
Viscosity:	35 - 65 centipoise at 23 C
Percent Volatile:	80 - 90 % by weight

 10 Stability and Reactivity

Conditions to Avoid:

Heat;
 Store out of direct sunlight.
 Sparks and/or Flames;
 Materials to Avoid:
 Store away from acids;
 Strong oxidizing agents;
 Hazardous Decomposition:
 Hydrocarbons - During Combustion;
 Carbon monoxide - During Combustion;
 Carbon dioxide - During Combustion;
 Stability and Reactivity:
 Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Prolonged or repeated exposure may cause:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

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Effects from Skin Contact:

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

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Prolonged or repeated exposure may cause:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Effects from Ingestion:

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

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

May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

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

WARNING: This product contains a chemical which has some evidence to indicate the possibility of adverse effects on reproductive development and/or fertilization. (110-54-3)

Component Based Information:

n-Hexane (CAS 110-54-3) - Peripheral neuropathy has been observed following occupational exposure to n-hexane levels of 30 ppm and greater for 2 months to 5 years.

Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest.

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.

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Prolonged or repeated exposure may cause:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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

Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

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:

No data available.

Product Packaging:

No data available.

Special Instructions:

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

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14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

62-1390-8535-1

Proper Shipping Name:

Regulated Material.

Class/Division:

ADHESIVES

UN Number:

3

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.

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:

AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

EINECS - European Inventory of Existing Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 2 - Hazards Identification - Critical Hazards;

Section 11 - Toxicological Information;

Section 13 - Disposal Considerations;

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.

---End---

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