



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Lead Foil Tape 420

Product Identification Numbers

44-0004-0524-9, 44-0012-1910-2, 44-0044-3649-7, 70-0000-8019-5, 70-0063-8612-5, 70-0063-8613-3, 70-0063-8614-1, 70-0063-8615-8, 70-0063-8616-6, 70-0063-8828-7, 70-0063-8829-5, 70-0063-8830-3, 70-0063-8831-1, 70-0063-8855-0, 70-0063-8904-6, 70-0063-8916-0, 70-0063-8917-8, 70-0063-9087-9, 70-0063-9089-5, 70-0063-9090-3, 70-0063-9091-1, 70-0063-9092-9, 70-0063-9093-7, 70-0063-9094-5, 70-0063-9119-0, 70-0063-9150-5, 70-0063-9173-7, 70-0063-9200-8, 70-0063-9211-5, 70-0063-9256-0, 70-0063-9301-4, 70-0063-9485-5, 70-0075-1422-0, 70-0075-3717-1, 70-0075-4323-7, 70-0075-4324-5, 70-0075-4339-3, 70-0075-4340-1, 70-0075-4341-9, 70-0075-4342-7, 70-0075-4343-5, 70-0075-4345-0, 70-0075-4346-8, 70-0075-4770-9, 70-0075-4771-7, 70-0161-1069-7, UU-0108-8012-6, UU-0108-8015-9
7100132885, 4010462791, 4010463209, 7010334283, 7010374421, 7010312659, 7000049063, 7010334284, 7000001315, 7000049114, 7000049101, 7000001314, 7000049133, 7100026640, 7000049137, 7000049138, 7000029006, 7000049135, 7000049108, 7000049131, 7000049132, 7000049134, 7100221166, 7100221142, 7100221164, 7100245634, 7010373545, 7010373573, 7010334789, 7100221140, 7100221025, 7100221141, 7010415178, 7100245635, 7100221191, 7100221138, 7100221139, 7010373524, 7010334786, 7010373540, 7000124194, 7010374444, 7010334792, 7100219357, 7100219354

1.2. Recommended use and restrictions on use

Recommended use

420 lead foil tape is used as a maskant in electroplating applications as well as a moisture and radiation barrier in other applications., Industrial use

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Industrial Adhesives and Tapes Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Skin Sensitizer: Category 1B.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 2.
Specific Target Organ Toxicity (repeated exposure): Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

May cause an allergic skin reaction.
May damage fertility or the unborn child.
Suspected of causing cancer.

May cause damage to organs:
nervous system |

May cause damage to organs through prolonged or repeated exposure:
blood or blood-forming organs |
musculoskeletal system |
nervous system |
kidney/urinary tract |
sensory organs |

Precautionary Statements

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

95% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Lead	7439-92-1	90 - 99 Trade Secret *
Natural Rubber	9003-31-0	1 - 5 Trade Secret *
Rosin	8050-09-7	< 2 Trade Secret *
Tin	7440-31-5	< 2 Trade Secret *
Antimony	7440-36-0	< 1 Trade Secret *
Arsenic	7440-38-2	< 0.1 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required. After handling, wash hands with a soap that is specifically formulated to remove lead from the surface of the skin.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

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
Lead	7439-92-1	ACGIH	TWA(as Pb):0.05 mg/m ³	A3: Confirmed animal carcin.
Lead	7439-92-1	OSHA	TWA:0.05 mg/m ³	29 CFR 1910.1025
Tin	7440-31-5	ACGIH	TWA(inhalable fraction):2 mg/m ³	
Tin	7440-31-5	OSHA	TWA(as Sn):2 mg/m ³	
Antimony	7440-36-0	ACGIH	TWA(as Sb):0.5 mg/m ³	
Antimony	7440-36-0	OSHA	TWA(as Sb):0.5 mg/m ³	
Arsenic	7440-38-2	ACGIH	TWA(as As):0.01 mg/m ³	A1: Confirmed human carcin.
Arsenic	7440-38-2	OSHA	TWA:0.01 mg/m ³	29 CFR 1910.1018
Rosin	8050-09-7	ACGIH	TWA(as Resin, inhalable fraction):0.001 mg/m ³	Dermal/Respiratory Sensitizer

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

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:

Safety Glasses with side shields

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Nitrile Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Solid

Color

Silver

Specific Physical Form:

Tape

Odor

Slight Rubber

Odor threshold*Not Applicable***pH***Not Applicable***Melting point***No Data Available***Boiling Point***Not Applicable***Flash Point**

No flash point

Evaporation rate*Not Applicable***Flammability (solid, gas)**

Not Classified

Flammable Limits(LEL)*Not Applicable***Flammable Limits(UEL)***Not Applicable***Vapor Pressure***Not Applicable***Vapor Density***Not Applicable***Specific Gravity***Not Applicable***Solubility In Water***Not Applicable***Solubility- non-water***Not Applicable***Partition coefficient: n-octanol/ water***Not Applicable***Autoignition temperature***Not Applicable*

Decomposition temperature	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>
Molecular weight	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Percent volatile	<i>Not Applicable</i>
VOC Less H2O & Exempt Solvents	<i>No Data Available</i>

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

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

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Oxides of Lead	Not Specified

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:

May cause additional health effects (see below).

Skin Contact:

May be harmful in contact with skin.

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Ingestion:

May be harmful if swallowed.

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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

May cause additional health effects (see below).

Additional Health Effects:

May accumulate in the body.

Single exposure may cause target organ effects:

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.

Prolonged or repeated exposure may cause target organ effects:

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

Hard Tissue Effects: Signs/symptoms may include color changes in the teeth and nails; changes in development of bone, teeth or nails; weakening of the bones; and/or hair loss.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

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.

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.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
Arsenic	7440-38-2	Known human carcinogen	National Toxicology Program Carcinogens
ARSENIC, INORGANIC	7440-38-2	Cancer hazard	OSHA Carcinogens
Lead	7439-92-1	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Lead	7439-92-1	Anticipated human carcinogen	National Toxicology Program Carcinogens

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 >2,000 - =5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Lead	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Natural Rubber	Dermal		LD50 estimated to be > 5,000 mg/kg
Natural Rubber	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Tin	Dermal	Rat	LD50 > 2,000 mg/kg
Tin	Inhalation-	Rat	LC50 > 4.75 mg/l

	Dust/Mist (4 hours)		
Tin	Ingestion	Rat	LD50 > 2,000 mg/kg
Rosin	Dermal	Rabbit	LD50 > 2,500 mg/kg
Rosin	Ingestion	Rat	LD50 7,600 mg/kg
Antimony	Ingestion	Rat	LD50 > 7,000 mg/kg
Antimony	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Arsenic	Dermal	similar compounds	LD50 > 1,000 mg/kg
Arsenic	Ingestion	similar compounds	LD50 15 mg/kg
Arsenic	Inhalation-Dust/Mist (4 hours)	similar health hazards	LC50 Not Available

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Lead	similar compounds	No significant irritation
Natural Rubber	Professional judgement	No significant irritation
Tin	Rabbit	No significant irritation
Rosin	Rabbit	No significant irritation
Arsenic	In vitro data	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Lead	similar compounds	Mild irritant
Natural Rubber	Professional judgement	No significant irritation
Tin	Rabbit	No significant irritation
Rosin	Rabbit	Mild irritant
Arsenic	In vitro data	Corrosive

Skin Sensitization

Name	Species	Value
Natural Rubber	Human	Not classified
Rosin	Guinea pig	Sensitizing
Arsenic	similar compounds	Not classified

Respiratory Sensitization

Name	Species	Value
Rosin	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Lead	In vivo	Some positive data exist, but the data are not sufficient for classification
Antimony	In Vitro	Some positive data exist, but the data are not sufficient for classification
Arsenic	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Lead	Not Specified	official classification	Carcinogenic
Arsenic	Ingestion	similar compounds	Carcinogenic
Arsenic	Inhalation	similar compounds	Carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Lead	Not Specified	Toxic to female reproduction	Human	LOAEL 10 ug/dl blood	
Lead	Not Specified	Toxic to male reproduction	Human	LOAEL 37 ug/dl blood	
Lead	Not Specified	Toxic to development	Human	NOAEL Not available	
Antimony	Ingestion	Not classified for development	Rabbit	NOAEL 30 mg/kg/day	during gestation
Arsenic	Ingestion	Toxic to development	similar compounds	NOAEL Not available	
Arsenic	Inhalation	Toxic to development	similar compounds	NOAEL Not available	
Arsenic	Ingestion	Toxic to male reproduction	similar compounds	NOAEL 0.1 mg/L in drinking water	56 days
Arsenic	Ingestion	Toxic to female reproduction	similar compounds	NOAEL Not available	

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Lead	Ingestion	nervous system	May cause damage to organs	Human	LOAEL 90 ug/dl blood	poisoning and/or abuse
Lead	Ingestion	heart	Not classified	Human	NOAEL Not available	poisoning and/or abuse
Arsenic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Lead	Inhalation	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 60 ug/dl blood	occupational exposure
Lead	Inhalation	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 50 ug/dl blood	occupational exposure
Lead	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 40 ug/dl blood	occupational exposure
Lead	Inhalation	gastrointestinal tract	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Lead	Inhalation	heart endocrine system immune system vascular system	Not classified	Human	NOAEL Not available	occupational exposure
Lead	Ingestion	bone, teeth, nails, and/or hair	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 20 ug/dl blood	3 months
Lead	Ingestion	eyes	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0.5 mg/kg/day	20 days
Lead	Ingestion	hematopoietic system kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 40 ug/dl blood	environmental exposure
Lead	Ingestion	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 11 ug/dl blood	environmental exposure
Lead	Ingestion	auditory system heart endocrine system vascular system	Not classified	Human	NOAEL Not available	environmental exposure
Antimony	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 740 mg/kg/day	24 weeks
Antimony	Ingestion	liver	Not classified	Rat	NOAEL 370 mg/kg/day	24 weeks
Arsenic	Inhalation	skin nervous system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL Not available	
Arsenic	Ingestion	heart skin hematopoietic system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL Not Available	
Arsenic	Ingestion	nervous system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL Not available	
Arsenic	Ingestion	respiratory system vascular system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL Not Available	

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**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): D004 (Arsenic), D008 (Lead)

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Carcinogenicity

Reproductive toxicity

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
Lead	7439-92-1	Trade Secret 90 - 99
Lead (Lead)	7439-92-1	Trade Secret 90 - 99

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information**NFPA Hazard Classification****Health:** 2 **Flammability:** 0 **Instability:** 0 **Special Hazards:** 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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