



Material Safety Data Sheet

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PRODUCT NAME: 3M™ Power Tools with Air Tool Lubricant, Back-up Pads; Elite's
MANUFACTURER: 3M

Issue Date: 08/11/14
Supersedes Date: 01/10/14
Document Group: 30-1105-3

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:

23-4623-7

Revision Changes: Not Applicable

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 23-4623-7 | Version Number: | 6.00 |
| Issue Date: | 10/29/13 | Supersedes Date: | 08/29/13 |

SECTION 1: Identification

1.1. Product identifier

3M™ Air Tool Lubricant

Product Identification Numbers

1.2. Recommended use and restrictions on use

Recommended use

Tool Lubricant

1.3. Supplier's details

| | |
|----------------------|---------------------------|
| MANUFACTURER: | 3M |
| DIVISION: | Abrasive Systems Division |

SECTION 2: Hazard identification

2.1. Hazard classification

Acute Toxicity (inhalation): Category 4.
Reproductive Toxicity: Category 2.
Specific Target Organ Toxicity (central nervous system): Category 3.
Skin Sensitizer: Category 1B.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark | Health Hazard |

Pictograms

**Hazard Statements**

Harmful if inhaled.
 May cause an allergic skin reaction.
 May cause drowsiness or dizziness.
 Suspected of damaging fertility or the unborn child.

Precautionary Statements**Prevention:**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves.
 Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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 in a well-ventilated place. Keep container tightly closed.
 Store locked up.

Disposal:

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

2.3. Hazards not otherwise classified

None.

7% of the mixture consists of ingredients of unknown acute oral toxicity.

7% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|-----------------------|---------------|------------------------|
| Petroleum Oils | 64742-47-8 | 45 - 95 Trade Secret * |
| Petroleum Oils | Mixture | 45 - 95 Trade Secret * |
| Lubricating Oils | Mixture | 0 - 10 |
| Sulphide Additive | Mixture | 0.5 - 5 |
| Triphenyl Phosphate | 115-86-6 | < 0.5 |
| Petroleum Salt | Trade Secret* | < 0.5 Trade Secret * |
| Petroleum Distillates | 64742-65-0 | < 1 |
| Additive | 68937-41-7 | < 0.5 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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|------------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or

bodies of water.

6.3. Methods and material for containment and cleaning up

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. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Avoid breathing 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. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|------------|--------------------------------|--|--------------------------------|
| Triphenyl Phosphate | 115-86-6 | Amer Conf of Gov. Indust. Hyg. | TWA:3 mg/m ³ | |
| Triphenyl Phosphate | 115-86-6 | US Dept of Labor - OSHA | TWA:3 mg/m ³ | |
| JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR | 64742-47-8 | Amer Conf of Gov. Indust. Hyg. | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³ | Skin Notation |
| Kerosine (petroleum) | 64742-47-8 | Amer Conf of Gov. Indust. Hyg. | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³ | Skin Notation |
| Petroleum Oils | 64742-47-8 | Chemical Manufacturer Rec Guid | TWA:165 ppm | |
| Mineral oils (untreated and mildly treated) | 64742-65-0 | Amer Conf of Gov. Indust. Hyg. | Limit value not established: | Cntrl all exposr-low as possib |
| MINERAL OILS, HIGHLY-REFINED OILS | 64742-65-0 | Amer Conf of Gov. Indust. Hyg. | TWA(inhalable fraction):5 mg/m ³ | |
| Paraffin oil | 64742-65-0 | US Dept of Labor - OSHA | TWA(as mist):5 mg/m ³ | |
| Petroleum Distillates | 64742-65-0 | Chemical Manufacturer Rec Guid | TWA:5 mg/m ³ ;STEL:10 mg/m ³ | |

| | | | | |
|---|------------|--------------------------------|---------------------------------|--------------------------------|
| PETROLEUM DISTILLATES | 64742-65-0 | US Dept of Labor - OSHA | TWA:2000 mg/m3(500 ppm) | |
| Mineral oils (untreated and mildly treated) | Mixture | Amer Conf of Gov. Indust. Hyg. | Limit value not established: | Cntrl all exposr-low as possib |
| MINERAL OILS, HIGHLY-REFINED OILS | Mixture | Amer Conf of Gov. Indust. Hyg. | TWA(inhalable fraction):5 mg/m3 | |
| Paraffin oil | Mixture | US Dept of Labor - OSHA | TWA(as mist):5 mg/m3 | |
| PETROLEUM DISTILLATES | Mixture | US Dept of Labor - OSHA | TWA:2000 mg/m3(500 ppm) | |
| Petroleum Oils | Mixture | Chemical Manufacturer Rec Guid | TWA:5 mg/m3 | |

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
 American Indust. Hygiene Assoc : American Industrial Hygiene Association
 Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
 US Dept of Labor - 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: Polymer laminate

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

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

| | |
|--|--|
| General Physical Form: | Liquid |
| Odor, Color, Grade: | Mild pretroleum odor, clear light amber liquid |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>No Data Available</i> |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | 230 °C |
| Flash Point | 138 °C [<i>Test Method: Pensky-Martens Closed Cup</i>] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <i>No Data Available</i> |
| Vapor Density | <i>No Data Available</i> |
| Density | <i>No Data Available</i> |
| Specific Gravity | 0.88 [<i>@ 20 °C</i>] [<i>Ref Std: WATER=1</i>] |
| Solubility in Water | Nil |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 35.4 centistoke [<i>@ 40 °C</i>] [<i>Test Method: Tested per ASTM protocol</i>] [<i>Details: 10 wt. D-445</i>] |
| Viscosity | 6.1 centistoke [<i>@ 100 °C</i>] [<i>Test Method: Tested per ASTM protocol</i>] [<i>Details: 10 wt. D-445</i>] |
| Volatile Organic Compounds | 0.03 lb/gal |
| Percent volatile | 0.40 % |
| VOC Less H2O & Exempt Solvents | 4.00 g/l |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents
Reducing agents
Strong acids

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

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:

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

May cause target organ effects after inhalation.

Skin Contact:

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

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

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

May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

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

Reproductive/Developmental Toxicity:

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

Toxicological Data

Acute Toxicity

| Name | Route | Species | Value |
|------|-------|---------|-------|
|------|-------|---------|-------|

| | | | |
|-----------------------|--------------------------------|--------|---|
| Overall product | Inhalation-Dust/Mist(4 hr) | | Data not available or insufficient for classification; calculated ATE 2.3 mg/l |
| Overall product | Ingestion | | Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg |
| Petroleum Oils | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Petroleum Oils | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Petroleum Oils | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 3.0 mg/l |
| Petroleum Oils | Inhalation-Dust/Mist (4 hours) | Rat | LC50 2.2 mg/l |
| Petroleum Oils | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Lubricating Oils | | | Data not available or insufficient for classification |
| Sulphide Additive | | | Data not available or insufficient for classification |
| Petroleum Distillates | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Petroleum Salt | Dermal | Rabbit | LD50 > 2,400 mg/kg |
| Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4 mg/l |
| Petroleum Distillates | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Petroleum Salt | Ingestion | Rat | LD50 > 12,000 mg/kg |
| Additive | | | Data not available or insufficient for classification |
| Triphenyl Phosphate | Dermal | Rabbit | LD50 > 7,900 mg/kg |
| Triphenyl Phosphate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Triphenyl Phosphate | Ingestion | Rat | LD50 > 3,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------|---------|---|
| Petroleum Oils | Rabbit | Mild irritant |
| Lubricating Oils | | Data not available or insufficient for classification |
| Sulphide Additive | | Data not available or insufficient for classification |
| Petroleum Distillates | | Data not available or insufficient for classification |
| Petroleum Salt | | Data not available or insufficient for classification |
| Additive | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | Data not available or insufficient for classification |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------|---------|---|
| Petroleum Oils | Rabbit | Mild irritant |
| Lubricating Oils | | Data not available or insufficient for classification |
| Sulphide Additive | | Data not available or insufficient for classification |
| Petroleum Distillates | | Data not available or insufficient for classification |
| Petroleum Salt | | Data not available or insufficient for classification |
| Additive | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | Data not available or insufficient for classification |

Skin Sensitization

| Name | Species | Value |
|-----------------------|------------|---|
| Petroleum Oils | Guinea pig | Not sensitizing |
| Lubricating Oils | | Data not available or insufficient for classification |
| Sulphide Additive | | Data not available or insufficient for classification |
| Petroleum Distillates | | Data not available or insufficient for classification |
| Petroleum Salt | | Data not available or insufficient for classification |
| Additive | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | Data not available or insufficient for classification |

Respiratory Sensitization

| Name | Species | Value |
|----------------|---------|---|
| Petroleum Oils | | Data not available or insufficient for classification |

| | | |
|-----------------------|--|---|
| Lubricating Oils | | Data not available or insufficient for classification |
| Sulphide Additive | | Data not available or insufficient for classification |
| Petroleum Distillates | | Data not available or insufficient for classification |
| Petroleum Salt | | Data not available or insufficient for classification |
| Additive | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | Data not available or insufficient for classification |

Germ Cell Mutagenicity

| Name | Route | Value |
|-----------------------|----------|--|
| Petroleum Oils | In Vitro | Not mutagenic |
| Petroleum Oils | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Petroleum Oils | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Lubricating Oils | | Data not available or insufficient for classification |
| Sulphide Additive | | Data not available or insufficient for classification |
| Petroleum Distillates | | Data not available or insufficient for classification |
| Petroleum Salt | | Data not available or insufficient for classification |
| Additive | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | Data not available or insufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|--------|---------|--|
| Petroleum Oils | Dermal | Mouse | Not carcinogenic |
| Petroleum Oils | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Lubricating Oils | | | Data not available or insufficient for classification |
| Sulphide Additive | | | Data not available or insufficient for classification |
| Petroleum Distillates | | | Data not available or insufficient for classification |
| Petroleum Salt | | | Data not available or insufficient for classification |
| Additive | | | Data not available or insufficient for classification |
| Triphenyl Phosphate | | | Data not available or insufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-----------------------|-----------|--|---------|-----------------------------|-------------------------------------|
| Petroleum Oils | Ingestion | Not toxic to female reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| Petroleum Oils | Ingestion | Not toxic to male reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| Petroleum Oils | Dermal | Not toxic to development | Rat | NOAEL 2,000 mg/kg/day | during gestation |
| Petroleum Oils | Ingestion | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| Petroleum Oils | Dermal | Some positive male reproductive data exist, but the data are not sufficient for classification | Rabbit | NOAEL 1,000 mg/kg/day | 28 days |
| Lubricating Oils | | Data not available or insufficient for classification | | | |
| Sulphide Additive | | Data not available or insufficient for classification | | | |
| Petroleum Distillates | | Data not available or insufficient for classification | | | |
| Petroleum Salt | | Data not available or insufficient for classification | | | |
| Additive | | Data not available or insufficient for classification | | | |
| Triphenyl Phosphate | | Data not available or insufficient for classification | | | |

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

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------|------------|-----------------------------------|--|---------|---------------------|-------------------|
| Petroleum Oils | Inhalation | central nervous system depression | May cause drowsiness or dizziness | | NOAEL Not available | |
| Petroleum Oils | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Lubricating Oils | | | Data not available or insufficient for classification | | | |
| Sulphide Additive | | | Data not available or insufficient for classification | | | |
| Petroleum Distillates | | | Data not available or insufficient for classification | | | |
| Petroleum Salt | | | Data not available or insufficient for classification | | | |
| Additive | | | Data not available or insufficient for classification | | | |
| Triphenyl Phosphate | | | Data not available or insufficient for classification | | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------|-------|-----------------|---|---------|-------------|-------------------|
| Petroleum Oils | | | Data not available or insufficient for classification | | | |
| Lubricating Oils | | | Data not available or insufficient for classification | | | |
| Sulphide Additive | | | Data not available or insufficient for classification | | | |
| Petroleum Distillates | | | Data not available or insufficient for classification | | | |
| Petroleum Salt | | | Data not available or insufficient for classification | | | |
| Additive | | | Data not available or insufficient for classification | | | |
| Triphenyl Phosphate | | | Data not available or insufficient for classification | | | |

Aspiration Hazard

| Name | Value |
|-----------------------|--------------------------|
| Petroleum Oils | Aspiration hazard |
| Lubricating Oils | Not an aspiration hazard |
| Sulphide Additive | Not an aspiration hazard |
| Petroleum Distillates | Not an aspiration hazard |
| Petroleum Salt | Not an aspiration hazard |
| Additive | Not an aspiration hazard |
| Triphenyl Phosphate | Not an aspiration hazard |

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. As a disposal alternative, Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

Not regulated per U.S. DOT, IATA or IMO.

*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 transportation classifications are based on product formulation, packaging, 3M policies and 3M 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 U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.*

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

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: 1 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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|------------------------|-----------|-------------------------|----------|
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| Issue Date: | 05/05/16 | Supersedes Date: | 05/03/16 |

Product identifier

3M™ Power Tools with Air Tool Lubricant, Back-up Pads; Elite's

Recommended use

Power Tools and Tool Lubricant for use with abrasives

Supplier's details

| | |
|----------------------|---------------------------|
| MANUFACTURER: | 3M |
| DIVISION: | Abrasive Systems Division |

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

35-2668-8

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Safety Data Sheet

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| Document Group: | 35-2668-8 | Version Number: | 4.00 |
| Issue Date: | 05/23/18 | Supersedes Date: | 01/24/18 |

SECTION 1: Identification

1.1. Product identifier

3M Accessory Products, Air Tool Lubricant

Product Identification Numbers

60-4402-4213-3, 60-4402-4214-1, 60-4402-4215-8, 60-4402-4216-6

1.2. Recommended use and restrictions on use

Recommended use

Tool Lubricant

1.3. Supplier's details

| | |
|----------------------|---------------------------|
| MANUFACTURER: | 3M |
| DIVISION: | Abrasive Systems Division |

SECTION 2: Hazard identification

2.1. Hazard classification

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms

**Hazard Statements**

May cause drowsiness or dizziness.

Precautionary Statements**Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

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

31% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--------------------------|------------|------------------------|
| Petroleum Distillates | 64742-54-7 | 50 - 65 Trade Secret * |
| Alkanes, C18-28, chloro | 85535-86-0 | 10 - 20 |
| Chlorinated Paraffin Wax | 63449-39-8 | 10 - 20 |
| Mineral Oil | 64742-58-1 | 5 - 15 |
| Lubricant | 64742-53-6 | 1 - 10 Trade Secret * |
| Sulphide Additive | 68425-15-0 | 1 - 10 Trade Secret * |
| Petroleum Distillates | 64742-65-0 | 0.5 - 5 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:

Wash with soap and water. 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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

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. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. 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 or professional use only. Avoid breathing 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. Avoid release to the

environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. 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 |
|-----------------------------------|------------|--------|---|--------------------------------|
| Paraffin oil | 64742-53-6 | OSHA | TWA(as mist):5 mg/m ³ | |
| PETROLEUM DISTILLATES | 64742-53-6 | OSHA | TWA:2000 mg/m ³ (500 ppm) | |
| MINERAL OILS, HIGHLY-REFINED OILS | 64742-54-7 | ACGIH | TWA(inhalable fraction):5 mg/m ³ | A4: Not class. as human carcin |
| Paraffin oil | 64742-54-7 | OSHA | TWA(as mist):5 mg/m ³ | |
| MINERAL OILS, HIGHLY-REFINED OILS | 64742-58-1 | ACGIH | TWA(inhalable fraction):5 mg/m ³ | A4: Not class. as human carcin |
| Paraffin oil | 64742-65-0 | OSHA | TWA(as mist):5 mg/m ³ | |
| PETROLEUM DISTILLATES | 64742-65-0 | OSHA | TWA:2000 mg/m ³ (500 ppm) | |

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

None required.

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

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

| | |
|--|---|
| General Physical Form: | Liquid |
| Odor, Color, Grade: | Mild pretroleum odor, clear light amber liquid |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>No Data Available</i> |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | 230 °C |
| Flash Point | 138 °C [<i>Test Method:</i> Pensky-Martens Closed Cup] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <i>No Data Available</i> |
| Vapor Density | <i>No Data Available</i> |
| Density | <i>No Data Available</i> |
| Specific Gravity | .88 [@ 20 °C] [<i>Ref Std:</i> WATER=1] |
| Solubility in Water | Nil |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 6.1 - 35.4 centistoke [@ 40 °C] [<i>Test Method:</i> Tested per ASTM protocol] [<i>Details:</i> 10 wt. D-445] |
| Volatile Organic Compounds | 0.18 lb/gal |
| Percent volatile | 2.20 % |
| VOC Less H₂O & Exempt Solvents | 21.98 g/l |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

Reducing agents

Strong acids

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

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:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

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

Carcinogenicity:

| Ingredient | CAS No. | Class Description | Regulation |
|--|------------|--------------------------------|---|
| Generic: Alkanes, C10-12, chloro | 63449-39-8 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Generic: Alkanes, C10-12, chloro | 63449-39-8 | Anticipated human carcinogen | National Toxicology Program Carcinogens |
| Generic: Mineral oils (untreated and mildly treated) | 64742-53-6 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Generic: Mineral oils (untreated and mildly treated) | 64742-53-6 | Known human carcinogen | National Toxicology Program Carcinogens |
| Generic: Mineral oils (untreated and mildly treated) | 64742-58-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Generic: Mineral oils (untreated and mildly treated) | 64742-58-1 | Known 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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Petroleum Distillates | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Petroleum Distillates | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Chlorinated Paraffin Wax | Dermal | Rabbit | LD50 > 13,000 mg/kg |
| Chlorinated Paraffin Wax | Ingestion | Rat | LD50 > 11,700 mg/kg |
| Lubricant | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Lubricant | Inhalation-Dust/Mist (4 hours) | Rat | LC50 2.2 mg/l |
| Lubricant | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Petroleum Distillates | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4 mg/l |
| Petroleum Distillates | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------|---------|---------------------------|
| Petroleum Distillates | Rabbit | Minimal irritation |
| Chlorinated Paraffin Wax | Rabbit | No significant irritation |
| Lubricant | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------|---------|---------------------------|
| Petroleum Distillates | Rabbit | Mild irritant |
| Chlorinated Paraffin Wax | Rabbit | No significant irritation |
| Lubricant | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|-----------------------|------------|----------------|
| Petroleum Distillates | Guinea pig | Not classified |
| Lubricant | Guinea pig | Not classified |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|-----------------------|----------|--|
| Petroleum Distillates | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Lubricant | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Lubricant | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|--------|---------|--|
| Petroleum Distillates | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Lubricant | Dermal | Mouse | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-----------|-----------|--|---------|-----------------------|--------------------------------|
| Lubricant | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Lubricant | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Lubricant | Dermal | Not classified for development | Rat | NOAEL 2,000 mg/kg/day | during gestation |
| Lubricant | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Lubricant | Dermal | Not classified for male reproduction | Rabbit | NOAEL 1,000 mg/kg/day | 28 days |

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

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------|------------|-----------------------------------|-----------------------------------|------------------------|---------------------|-------------------|
| Petroleum Distillates | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Petroleum Distillates | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------|------------|--------------------|----------------|---------|-----------------|-------------------|
| Petroleum Distillates | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.21 mg/l | 28 days |

Aspiration Hazard

| Name | Value |
|-----------|-------------------|
| Lubricant | Aspiration hazard |

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

Not determined.

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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty

drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

Not regulated per U.S. DOT, IATA or IMO.

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 transportation classifications are based on product formulation, packaging, 3M policies and 3M 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 U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

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

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> |
|--|------------------|----------------|
| Chlorinated Paraffin Wax (POLYCHLORINATED ALKANES, C10-13) | 63449-39-8 | 10 - 20 |

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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: 1 Flammability: 1 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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