



Safety Data Sheet

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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

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

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

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
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/m3	
Triphenyl Phosphate	115-86-6	US Dept of Labor - OSHA	TWA:3 mg/m3	
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/m3	Skin Notation
Kerosine (petroleum)	64742-47-8	Amer Conf of Gov. Indust. Hyg.	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	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/m3	
Paraffin oil	64742-65-0	US Dept of Labor - OSHA	TWA(as mist):5 mg/m3	
Petroleum Distillates	64742-65-0	Chemical Manufacturer Rec Guid	TWA:5 mg/m3;STEL:10 mg/m3	

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

Substance

None known.

Condition

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
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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	premating & during gestation
Petroleum Oils	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & 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	premating & 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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