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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dilmar Air Tool Oil

Part Number: 66546doc-5

Distributor: Dilmar Oil Co., Inc. 1951 W. Darlington St. Florence, SC 29501

800-922-5823

Emergency Phone Number: During normal business hours – 800-922-5823

Recommend Uses: Machine Oil

SECTION 2. HAZARD(S) IDENTIFICATIONS

Emergency Overview

Appearance	Liquid at room temperature
Color	Amber
Odor	Slight hydrocarbon

GHS Classification:

Not a hazardous substance or mixture.

GHS Label Elements:

Not a hazardous substance or mixture.

Potential Health Effects

Primary Routes of Entry: Eye contact
Ingestion
Inhalation
Skin contact

Aggravated Medical Condition: None Known

Other hazards which do not result in classification

No Data Available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture: Mixture

Hazardous component(s)

Chemical Name	CAS-No.	Concentration (%)
Synthetic base oil and additives		
Highly refined mineral oil		<3% (w/w) DMSO-extract, according to IP346

SECTION 4. FIRST-AID MEASURES

If inhaled: Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.

In case of skin contact: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Wash clothing before reuse.
Seek medical advice.



In case of eye contact:	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed:	Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed:	First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:	Foam, water spray or fog. Dry chemical powder, carbon dioxide (CO ₂), sand or earth may be used for small fires only.
Unsuitable extinguishing media:	Do not use water in a jet.
Specific hazards during firefighting:	Cool closed containers exposed to fire with water spray.
Hazardous combustion products:	A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occur. Unidentified organic and inorganic compounds.
Further information:	Prevent fire extinguishing water from contaminating surface water or the ground water system. Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions:	If the product contaminates rivers and lakes or drains inform Respective authorities.
Methods and materials for containment and cleaning up:	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Conditions for safe storage:	Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not use in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**Components with workplace control parameters**

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA (Inhalable fraction.)		5 mg/m3	
Oil mist, mineral	OSHA Z1	PEL (Mist.)		5 mg/m3	

Monitoring Methods:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analyzed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH),

USA: Manual of Analytical Methods

<http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA:

Sampling and Analytical Methods

<http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the

Determination of Hazardous Substances

<http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen

Unfallversicherung (IFA), Germany.

<http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France

<http://www.inrs.fr/accueil>

Engineering measures:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment**Respiratory protection:**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type:

Organic vapor filter



Hand protection material:	Neoprene, Nitrile, Polyvinyl Alcohol (PVA), Viton(R).
Remarks:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection:	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures:	Wash hands and face before breaks and immediately after handling the product. Wash contaminated clothing before re-use. Ensure that eyewash station and safety shower are proximal to the work-station location.
Hygiene measures:	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid at room temperature
Color:	Amber
Odor:	Slight hydrocarbon
Odor Threshold:	No data available
pH:	No data available
Pour point:	Typical -24 °C / -11 °F
Melting point/freezing point:	No data available
Boiling point/boiling range:	>280 °C / 536 °F estimated value(s)
Flash Point:	Typical 241 °C / 466 °F (COC)
Fire Point:	No data available
Auto-Ignition Temperature:	> 320 °C / 608 °F
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flammability:	Typical 1 - 10 %(V)(based on mineral oil)
Upper explosion limit:	Typical 1 - 10 %(V) (based on mineral oil)
Lower explosion limit:	Typical 1 - 10 %(V) (based on mineral oil)
Vapor pressure:	< 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Relative vapor density:	> 1 (estimated value(s))
Density:	Typical 884 kg/m ³ at 15 °C / 59 °F
Solubility (ies):	
Water solubility:	Negligible.
Partition coefficient: n- Octanol/water	> 6 (based on information on similar products)
Viscosity	
Viscosity, Kinematic:	Typical 100 mm ² /s at 40 °C / 104 °F
Explosive properties:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous reactions:	Hazardous polymerization does not occur. Stable under normal conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Reactive with oxidizing agents, acids, alkalis and reducing agents.
Hazardous decomposition products:	Hazardous decomposition products are not expected to form during normal storage.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product:**

Acute oral toxicity Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat
Remarks: No data available

Acute inhalation toxicity Remarks: No data available

Acute dermal toxicity Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit
Remarks: No data available

Skin corrosion/irritation**Product:**

Remarks: Expected to be slightly irritating.

Serious eye damage/eye irritation**Product:**

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitization

Remarks: Inhalation of vapors or mists may cause irritation
Not expected to be a skin sensitizer

Germ cell mutagenicity

Remarks: Not considered a mutagenic hazard

Carcinogenicity**Product:**

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not expected to be a hazard

STOT - single exposure

No data available

**STOT - repeated exposure**

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish:	Remarks: No data available
Toxicity to daphnia and other: aquatic invertebrates	Remarks: No data available
Toxicity to algae:	Remarks: No data available
Toxicity to bacteria:	Remarks: No data available

Persistence and degradability**Product:**

Biodegradability:	Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
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Bioaccumulative potential**Product:**

Bioaccumulative:	Remarks: Contains components with the potential to bioaccumulate.
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Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues:	The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.
Contaminated packaging:	Do not re-use empty containers.

SECTION 14. TRANSPORTATION INFORMATION**International Regulation****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

49 CFR

Not regulated as a dangerous good

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: No data available

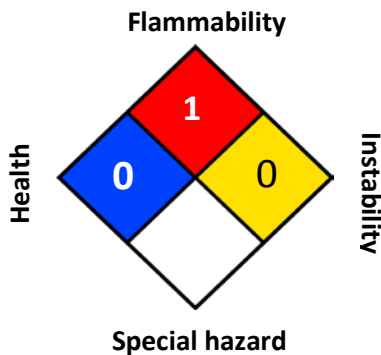
The components of this product are reported in the following inventories:

DSL All components listed.
TSCA All components listed.
EINECS All components listed or polymer exempt

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Prepared by: Dilmar Oil Co., Inc.

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