



# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Jun/22/2016  
Version: 1  
Language: en-US  
Date of print: Mar/2/2016

## Pneuma Lube liquid

Article number 152500

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### 1. Product and company identification

#### Product identifier

Trade name: Pneuma Lube liquid

#### Relevant identified uses of the substance or mixture and uses advised against

General use: Active ingredients, liquid.  
Reserved for industrial and professional use.

#### Details of the supplier of the safety data sheet

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: [www.weicon.ca](http://www.weicon.ca)  
E-mail: [info@weicon.ca](mailto:info@weicon.ca)  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254  
Dept. responsible for information:  
Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: [msds@weicon.de](mailto:msds@weicon.de)  
Additional information: WEICON GmbH & Co. KG  
Königsberger Straße 255  
Münster 48157  
[www.weicon.de](http://www.weicon.de)  
[info@weicon.de](mailto:info@weicon.de)  
+49(0)251 / 9322 - 0  
+49(0)251 / 9322 - 244

#### Emergency phone number

GI2, Bonn Germany ( English )  
Telephone: +49(0)228 / 19 240

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Color: varying  
Odor: characteristic  
Classification: Flammable Liquid - Category 3; Specific Target Organ Toxicity (Single Exposure) - Category 3; Aspiration Toxicity - Category 1;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
May cause drowsiness or dizziness.



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Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.  
Do NOT induce vomiting.  
In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Special danger of slipping by leaking/spilling product. Repeated exposure may cause skin dryness or cracking. Potentially explosive mixtures may form if adequate ventilation is not provided.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may have a narcotic effect.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Mixture of hydrocarbons, additives and solvents

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	25 - 50 %	Aspiration Toxicity - Category 1.
CAS 64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	10 - 25 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1.
CAS 95-63-6	1,2,4-Trimethylbenzene	0.1 - 1 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - chronic - Category 2.



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### 4. First aid measures

In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Keep airway open. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen. Consult physician immediately.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Keep eye wide open. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs. Seek medical aid in case of troubles.

#### Most important symptoms/effects, acute and delayed

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may have a narcotic effect.

#### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

Flash point/flash point range:	96.8 °F
Auto-ignition temperature:	no data available
Suitable extinguishing media:	Water fog, alcohol resistant foam, dry chemical powder, carbon dioxide.
Extinguishing media which must not be used for safety reasons:	Full water jet

#### Specific hazards arising from the chemical

Flammable liquid and vapor. May form dangerous gases and vapours in case of fire. In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:	Wear a self-contained breathing apparatus and chemical protective clothing.
Additional information:	Do not expose to high temperature. Danger of bursting and explosion. Cool exposed containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

### 6. Accidental release measures

Personal precautions:	Avoid contact with skin, eyes, and clothing. Do not breathe fume/gas/mist/vapors/spray. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Wear protective equipment. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.
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### Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!  
In case of release, notify competent authorities.

### Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).  
Beware of reignition. Thoroughly clean surrounding area.  
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

### Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.  
Special danger of slipping by leaking/spilling product.

## 7. Handling and storage

### Handling

#### Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed.  
Wear protective equipment. Do not breathe fume/gas/mist/vapors/spray.  
Avoid contact with skin, eyes, and clothing.  
Take off contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Avoid the formation of aerosol.

#### Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Use only explosion-protected equipment/instruments. Do not weld.  
In partially filled containers explosive mixtures may form.

### Storage

#### Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Protect from moisture contamination. Protect from frost, heat and sunlight. Keep only in the original container. Explosion protection required.

#### Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

#### Further details:

Do not allow the product to enter the ground.

## 8. Exposure controls / personal protection

### Exposure guidelines

#### Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
95-63-6	1,2,4-Trimethylbenzene	USA: ACGIH: TWA	123 mg/m <sup>3</sup> ; 25 ppm
		USA: NIOSH: TWA	125 mg/m <sup>3</sup> ; 25 ppm

### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

#### Eye/face protection

Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

#### Skin protection

Flame retardant, antistatic and chemical resistant protective clothing.



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Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber

Layer thickness: >0.5 mm

Breakthrough time: >480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

General hygiene considerations:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Do not breathe vapor or spray. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Color: varying
Odor:	characteristic
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	323.6 °F
Flash point/flash point range:	96.8 °F
Evaporation rate:	not determined
Flammability:	not applicable
Explosion limits:	LEL (Lower Explosion Limit): 0.50 Vol-% UEL (Upper Explosive Limit): 7.00 Vol-%
Vapor pressure:	at 68 °F: 1 hPa
Vapor density:	no data available
Density:	at 68 °F: 0.89 g/mL
Water solubility:	not/slightly miscible
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Vapors may form explosive mixtures with air.
Ignition temperature:	> 392 °F
Solvent content:	47 %
Solid content:	9.8 %

## 10. Stability and reactivity

Reactivity: Flammable liquid and vapor.  
Vapors may form explosive mixtures with air.



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Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions  
Do not expose to high temperature. Danger of bursting and explosion.

Conditions to avoid: Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight.

Incompatible materials: no data available

Hazardous decomposition products:  
May form dangerous gases and vapours in case of fire.  
In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (calculated): ATE > 20 mg/L. (vapor)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Aspiration Toxicity -  
Category 1 = May be fatal if swallowed and enters airways.

Other information: Information about Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:  
Oral LD50 Rat: > 5000 mg/kg bw (OECD 423)  
Dermal LD50 Rabbit: > 2000 mg/kg (OECD 402)  
Inhalative LC50 Rat: 4951 mg/m<sup>3</sup> (OECD 403)

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:  
Oral LD50 Rat: > 5000 mg/kg bw (OECD 420)  
Dermal LD50 Rabbit: > 5000 mg/kg (OECD 402)  
Inhalative LC50 Rat: > 5000 mg/m<sup>3</sup>/8h (OECD 403)



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## 12. Ecological information

### Ecotoxicity

Aquatic toxicity:

Information about Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/72h (OECD 201).

Daphnia toxicity:

LL50 Daphnia magna (Big water flea): 1000 mg/L/48h (OECD 202).

Fish toxicity:

LL50 Oncorhynchus mykiss: > 1000 mg/L/96h (OECD 203).

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/72h (OECD 201).

Daphnia toxicity:

LL50 Daphnia magna (Big water flea): 1000 mg/L/48h (OECD 202).

Fish toxicity:

LL50 Oncorhynchus mykiss: > 1000 mg/L/96h (OECD 203).

Further details:

Biodegradation:

Information about Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics: 80% (OECD 301F) Product is biodegradable.

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Biodegradation: 68 % (OECD 301F). Product is biodegradable.

### Mobility in soil

no data available

### Persistence and degradability

Further details:

no data available

### Additional ecological information

Volatile organic compounds (VOC):

48.66 % by weight = 433.5 g/L

General information:

Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation:

Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation:

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Handle empty containers with care. Incineration may cause explosion.



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### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification numbers: UN1993  
Proper shipping name: UN 1993, flammable liquids, n.o.s.  
(Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)", solution  
DOT hazard class or division: 3  
PG: III  
Label codes: 3  
Symbols: G  
Special provisions: B1, B52, IB3, T4, TP1, TP29  
Packaging - Exceptions: 150  
Packaging - Non-bulk: 203  
Packaging - Bulk: 242  
Quantity limitations - Passenger aircraft / rail: 60 L  
Quantity limitations - Cargo only: 220 L  
Vessel stowage - Location: A



#### Sea transport (IMDG)

UN number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)", solution  
IMDG: Class 3, Subrisk -  
Packing Group: III  
EmS: F-E, S-E  
Special provisions: 223, 274, 955  
Limited quantities: 5 L  
EQ: E1  
Contaminated packaging - Instructions: P001, LP01  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: no  
Segregation group: none





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### Air transport (IATA)

UN/ID number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics;  
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)",  
solution  
ICAO/IATA: Class 3  
PG: III  
Hazard: Flamm. liquid  
EQ: E1  
Passenger Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L  
Passenger: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L  
Cargo: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L  
Special Provisioning: A3  
ERG: 3L

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Hydrocarbons, C11-C14, n-alkanes, isoalkanes,  
cyclics, <2% aromatics:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes,  
cyclics, <2% aromatics:

1,2,4-Trimethylbenzene:

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed; EPA flags P

TSCA HPVC: not listed

TSCA Inventory: listed

TSCA HPVC: not listed

Other Environmental Laws:

SARA Title III Section 313, Toxic Release: Conc. 1.0% /  
Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0638

### National regulations - U.S. State Regulations

1,2,4-Trimethylbenzene:

California Proposition 65 code: not listed

Delaware Air Quality Management List:

DRQ: 100 - RQ State: State requirement differs from Federal

Maine Hazardous Air Pollutants:

Me 2005: HAP - Hap Rpt: 1000

Massachusetts Haz. Substance codes: F7 F9

New Jersey RTK Hazardous Substance:

DOT: 1263 - Sub No.: 2716 - TPQ: -

Pennsylvania Haz. Substance code: E

### National regulations - Great Britain

Hazchem-Code: •3Y

## 16. Other information

Text for labeling: Contains 25 - 50 % Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%  
aromatics, 10 - 25 % Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%  
aromatics, 0.1 - 1 % 1,2,4-Trimethylbenzene. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 4 (Severe)

Fire: 3 (Serious)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 4 (Severe)

Flammability: 3 (Serious)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	4
FLAMMABILITY	3
PHYSICAL HAZARD	1
	X

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### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.