

PETRONIO SHOE PRODUCTS
MATERIAL SAFETY DATA SHEET

MSDS:

MASTER ALL-PURPOSE THINNER

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SECTION I-CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER:

PETRONIO SHOE PRODUCTS CORP.
305 CORTLANDT STREET
BELLEVILLE, NEW JERSEY 07109

Revision Date: 1/10/08

GENERAL MSDS ASSISTANCE: (973)751-7579
24 HOUR EMERGENCY ASSIST: (800)535-5053

CHEMICAL FAMILY: Solvent blend.

TRANSPORTATION EMERGENCIES: INFOTRAC

SECTION II - HAZARDS IDENTIFICATION

Appearance: Liquid, Hydrocarbon-like, white

DANGER! Flammable Liquid, Toxic by inhalation, Moderate skin irritant, Severe eye irritant.

Potential Health Effects

Routes of Exposure: Inhalation, Skin absorption, skin contact, eye contact, ingestion.

Eye: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation: Breathing of vapor mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits. (See Section 8).

Aggravated Medical Condition: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions), kidney, central nervous system, male reproductive system, auditory system. Individual with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

Symptoms: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects temporary changes in mood and behavior, muscle weakness, loss of coordination, confusion, irregular heartbeat, coma and death.

Target Organ Effects: Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of arms and legs) and result in muscular weakness and loss of sensation. Based on animal studies, exposure to Methyl ethyl ketone increases the onset of peripheral neuropathy caused by exposure to Methyl butyl ketone, and/or n-hexane, and/or ethyl butyl ketone. MEK alone has not been shown to cause peripheral neuropathy. Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous system, vision, hearing, liver, kidneys, heart, and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene. Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness.

SECTION II - HAZARDS IDENTIFICATION CONT'D

In addition, while workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone. Over exposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, respiratory tract damage (nose, throat, and airways), effects on hearing, testis damage, lung damage, central nervous system damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: visual impairment, kidney damage, central nervous system effects.

Carcinogenicity: Based on the available information, this material cannot be classified with the regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety & Health Administration.

Reproduction Hazard: Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Components	Cas-No.	Concentration
N-Hexane	110-54-3	>=60-<70%
Toluene	108-88-3	>=20-<30%
Methyl Ethyl Ketone	78-93-3	>=5-<10%

SECTION IV- FIRST AID MEASURES

Eyes: If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible do not leave individual unattended.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If the symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note(s) to Physician: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3- Swallowing) when deciding whether to induce vomiting.

SECTION V - FIRE FIGHTING MEASURES

Suitable extinguishing media: Water mist, carbon dioxide (CO₂), dry chemical.

Hazardous combustion products: May form: Carbon dioxide and carbon monoxide, various hydrocarbons.

Precautions for fire-fighting: Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Wear full fire fighting turn out gear (Full Bunker gear) and respiratory protection (SCBA).

SECTION VI- ACCIDENTAL RELEASE MEASURES

Personal precautions: For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed.

Environmental precautions: Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

SECTION VII - HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid) all hazard precautions given in the data sheet must be observed. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of regular contaminated clothing is essential to reduce indirect skin contact with material. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. **Storage:** Do not store near extreme heat, open flame, or sources of ignition.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

N-HEXANE			TOLUENE		
110-54-3			108-88-3		
ACGIH	time weighted average	50 ppm	ACGIH NIC	time weighted average	20 ppm
NIOSH	REL	50 ppm	ACGIH	time weighted average	50 ppm
NIOSH	REL	180 mg/m ³	NIOSH	REL	100 ppm
OSHA Z1	Permissible exp. Limits	500 ppm	NIOSH	REL	375 mg/m ³
OSHA Z1	Permissible exp. Limits	1800 mg/m ³	NIOSH	Short term exp. Limits	150 ppm
METHYL ETHYL KETONE			NIOSH	Short term exp. Limits	560 mg/m ³
78-93-3			OSHA Z2	time weighted average	200 ppm
ACGIH	time weighted average	200 ppm	OSHA Z2	Ceiling Limit Value	300 ppm
ACGIH	Short term exp. Limits	300 ppm	OSHA Z2	Maximum concentration	500 ppm
NIOSH	REL	200 ppm			
NIOSH	REL	590 mg/m ³			
NIOSH	Short term exp. Limits	300 ppm			
NIOSH	Short term exp. Limits	885 mg/m ³			
OSHA Z1	Permissible exp. Limits	200 ppm			
OSHA Z1	Permissible exp. Limits	590mg/m ³			

General Advice: These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (s).

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised. However, OSHA regulations also permit other types of safety glasses. Consult your safety representative.

Skin and Body protection: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory protection: If workplace exposure limit(s) of product or any component is exceeded (see exp. Guidelines) a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid	Form: No data	Colour: White	Odour: hydrocarbon-like
Boiling Point: No data	pH: No data	Flash point: 0°F/-18°C Tag closed cup	
Evaporation rate: 1 Ethyl Ether	Explosion limits: No data	Vapour pressure: No data	
Vapour density: 1	Density: 0.73g/cm ³ @68.00°F/20.00°C	6.08 lb/gal @ 68.00°F/20.00°C	
Solubility: No Data	Partition Coefficient(n-octanol/water: No data	Autoignition temp: No data	

SECTION X - STABILITY AND REACTIVITY

Stability: Stable **Conditions to avoid:** None known
Incompatible products: Avoid contact with copper, copper alloys, strong acids, strong alkalis, strong oxidizing agents.
Hazardous Decomposition: May form: carbon dioxide and carbon monoxide, various hydrocarbons
Hazardous reactions: Product will not undergo hazardous polymerization. **Thermal Decomposition:** No data

SECTION XI - TOXICOLOGY INFORMATION

Acute oral toxicity		Acute inhalation Toxicity	
N-Hexane	LD 50 Rat: 25g/kg	N-Hexane	LD 50 Rat: 48000 ppm, 4h
Toluene	LD 50 Rat: 5,000 mg/kg	Toluene	LD 50 Rat: 8000 ppm, 4h
Methyl Ethyl Ketone	LD 50 Mouse: 670 mg/kg	Methyl Ethyl Ketone	LD 50 Rat: 11,700 mg/l, 4h
	LD 50 Rat: 2,300-3,500 mg/kg		
Acute dermal toxicity			
N-Hexane	LD 50 Rabbit: 1.3 g/kg		
Toluene	LD 50 Rabbit: 12,124 mg/kg		
Methyl Ethyl Ketone	LD 50 Rabbit: 5g/kg		

SECTION XII-ECOLOGICAL INFORMATION

Aquatic toxicity: Acute and Prolonged Toxicity to Fish: No Data
Acute Toxicity to Aquatic Invertebrates: No Data
Environmental fate and pathways: No Data

SECTION XIII-DISPOSAL CONSIDERATIONS**Waste Disposal Methods**

Dispose of in accordance with all applicable local, state, and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds, or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

SECTION XIV-TRANSPORT INFORMATION

IMDG: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
IATA_P: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
IATA_C: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
CFR_ROAD: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
CFR_RAIL: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
CFR_INWTR: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
IMDG_INWTR: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
IMDG_ROAD: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II
IMDG_RAIL: Un1993, Flammable liquid, N.O.S. (Hexane) 3, II

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

SECTION XV-REGULATORY INFORMATION
California Proposition 65

WARNING! This product contains the following substance(s) known to the state of California to cause cancer.

BENZENE

WARNING! This product contains the following substance(s) known to the state of California to cause birth defects or other reproductive harm.

TOLUENE

BENZENE

Additional regulations: US Drug Enforcement Administration (DEA) List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)).

SARA Hazard Classification: Fire Hazard, Acute Health Hazard

SARA 313 Components**Section 313 Components**

	<u>CAS Number</u>	<u>%%</u>
TOLUENE	108-88-3	29.7653
N-HEXANE	110-54-3	62.5105

OSHA Hazards: Flammable Liquid, Toxic by inhalation, Moderate skin irritant, Severe eye irritant.

	Health	Flammability	Reactivity	Other
HMIS	1	3	0	
NFPA	2	3	0	

SECTION XVI - OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need the information is current, applicable, and suitable to their circumstances.
