



Penetrol™

ALL PURPOSE ELECTRO-MECHANICAL EQUIPMENT SPRAY
CLEANS - LUBRICATES - PENETRATES - DISPLACES MOISTURE - PROVIDES
PROTECTIVE SHIELD

DESCRIPTION

Penetrol™ is a handy multi-functional electro-mechanical spray for virtually any use on virtually any surface. Easy to apply and ready to use, non-drying, penetrating, lubricant and protectant with a high dielectric strength (may be used on any electrical part) makes it ideal for unlimited applications. Eliminates costly multi-product purchase and storage. Reduces staff “where to use what” confusion. Never dries, retards corrosion and prevents rusting, loosens nuts, bolts, rust and scale while leaving a surface tenacious molecular water displacing shield and lubricating film. Prevents mechanical and electric failures due to moisture and/or corrosive atmospheres. Preserves and prolongs the life of valuable equipment. Extends the life of all types of lighting (indoor/outdoor) by reducing potential metal fusion caused from heat, corrosion and moisture buildups and makes maintenance and replacement easier.

Thousands of uses, day in and day out.
“A real tool box in a can”

AREAS OF APPLICATION

AUTOMOTIVE

LUBRICATING

Door locks, hinges, latches, slides, rollers and gears, handbrake cables, threaded clamps and fasteners, choke & carburetor linkages, cams & bearings, relays, starters, generators.

COATING

Electrical wires/connectors, distributors and coils, solenoids and wiring terminals, battery terminals and posts, light sockets and connectors, rubber seals and parts.

INDUSTRIAL

LUBRICATING

Door locks and padlocks, hinges, roll-up doors, plungers and rollers, machine slides and guides, cables and drive chains, hand, power and air tools, “ramset” guns, threading and tapping lube, frees corroded nuts and bolts, winches, cranes and forklifts.

COATING

Lock anti-seize and anti-freeze, welders spatter preventative, stored dies, tools and parts, video inspection cables, machine corrosion inhibitor, machine undercoating, battery terminals and posts.

ELECTRICAL

LUBRICATING

Fans, timers, clocks, motors, relays, pumps, meters, switches, controls, solenoids, contacts, eliminates moisture induced shorts.

COATING

Switches, plugs and sockets, contacts, terminals, circuit breakers, industrial and municipal, lighting fixtures and controls, swimming pool lighting.

MISCELLANEOUS

LUBRICATING

Hinges, locks, taps, spigots, saws, drills and all tools, fire hydrants, BBQ valves and spit drives, zippers, folding knives, camping stoves and lanterns, lawn mowers, snow blowers, lawn and garden equipment, sewing machines, outboard motors, steering linkages, cables, throttle controls, flywheel and starter gears, shift controls.



**COATING**

Rifles, target guns, zippers, bronze, brass and copper outdoor fixtures and plaques, outdoor lighting fixtures, fishing rods and reels, slides, locks and hinges, provides barrier to protect any metal or painted surfaces.

CLEANING

Removes old greases, dirt and oil as it provides new lubrication. Excellent for removal of double sided tape from hard surfaces such as floors, glass, etc., Removes bugs, tar and sap from tools and vehicles, decal removal.

PENETRATING

Nuts and bolts, screws and lags, hinges, threaded fittings, tools, locks, clamps, insulator nuts on hydro poles.

USE DIRECTIONS

Spray liberally into and on equipment until wet, using tube extension for hard-to-reach areas. Allow to penetrate. Work parts back and forth. Reapply as necessary to maintain level of lubrication and/or protection required.

NOTE: Avoid contamination of food in the application and storage of product. Surfaces subject to direct food contact should not be treated with this product. Do not store in food processing areas.

PHYSICAL PROPERTIES - AEROSOL

PENETROL™ consists of selected quality lubricants, penetrants and protectants.

<i>Type</i>	Aerosol Lubricant/Demoisturant
<i>Appearance</i>	Clear Amber Liquid
<i>Odour</i>	Coconut/Solvent
<i>Viscosity</i>	Light Oil Thin
<i>Dielectric Strength</i>	30kV
<i>Flammability (by aerosol flame extension test)</i>	Non-Flammable
<i>Flash Point</i>	>121°C/250°F
<i>Specific Gravity</i>	0.86
<i>Solubility in Water</i>	Negligible
<i>Toxicity (concentrate)</i>	Low; Eye/Skin Irritant

FOR USE IN INDUSTRIAL, INSTITUTIONAL, COMMERCIAL, MARINE and FOOD PROCESSING ENVIRONMENTS

PACKAGING Aerosol case = 12 x 385g cans

DMY200114

MAXIM TECHNOLOGIES INC.
1607 Derwent Way, DELTA, B.C. V3M 6K8
CANADA 604--526-5655

PRODUCT: PENETROL



Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER MAXIM TECHNOLOGIES INC.
1607 Derwent Way, DELTA
B.C.
CANADA
V3M 6K8
CANUTEC EMERGENCY #:1-613-996-6666(24HR)
PRODUCT NAME..... PENETROL
CHEMICAL FAMILY..... HYDROCARBONS.
MOLECULAR WEIGHT..... NOT APPLICABLE.
CHEMICAL FORMULA..... NOT APPLICABLE.
TRADE NAMES & SYNONYMS..... PENETROL
PRODUCT USES..... LUBRICANT/MOISTURE BARRIER.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
MIXTURE OF SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM)	60-100	5mg/m3 (oil mist) (8h)	MIXTURE	>5000 mg/kg (rat)	>2500 mg/m3/4h (rat)
*The base oil may be a mixture of the following CAS#s:8042-47-5,64742-46-7,64742-47-8,64742-53-6,64742-54-7,64742-55-8,72623-84-8,72623-85-9,72623-86-0,72623-87-1,178603-64-0,178603-65-1,178603-66-2,445411-73-4					
MINERAL OIL	10-30	5mg/m3	8042-47-5	NOT AVAILABLE	NOT AVAILABLE
DIPROPYLENE GLYCOL METHYL ETHER	1-5	100 ppm	34590-94-8	5135 mg/kg ORAL - RAT	NOT AVAILABLE
PROPRIETARY COMPONENTS	1-5				
ETHYLENE GLYCOL MONOBUTYL ETHER	0.1-1.0	25 ppm	111-76-2	530 - 2616 mg/kg ORAL - RAT	450 ppm (4 hr) INHAL - RAT
CARBON DIOXIDE	1-5	5000 ppm	124-38-9	NOT APPLICABLE	NOT AVAILABLE

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
 INGESTION..... MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
 INHALATION..... INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.
 EYE CONTACT..... VAPORS MAY IRRITATE.
 SKIN ABSORPTION..... NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.
 SKIN CONTACT..... MAY CAUSE IRRITATION.
 EFFECTS OF ACUTE EXPOSURE..... DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.
 EFFECTS OF CHRONIC EXPOSURE..... SOLVENTS MAY CAUSE DEFATTING DERMATITIS
 EXPOSURE LIMIT OF MATERIAL..... SEE SECTION 2.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C)..... NOT AVAILABLE.
 SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARTATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.
 FLAMMABILITY..... NOT A FLAMMABLE PRODUCT (AS PER CANADIAN AEROSOL REGULATIONS).
 IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
 EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
 UPPER FLAMMABLE LIMIT..... NOT ESTABLISHED.

PRODUCT: PENETROL**Section 05: FIRE FIGHTING MEASURES**

(% BY VOLUME)
 LOWER FLAMMABLE LIMIT..... NOT ESTABLISHED.
 (% BY VOLUME)
 EXPLOSION DATA
 SENSITIVITY TO STATIC DISCHARGE..... NOT APPLICABLE.
 SENSITIVITY TO IMPACT..... NOT APPLICABLE.
 HAZARDOUS COMBUSTION
 PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 AEROSOL FLAME PROJECTION
 CLASSIFIED AS:..... 0 cm.
 FLASHBACK..... NONE.
 FLASH POINT(°C), TAG CLOSED-CUP LOWEST KNOWN VALUE IS HYDROTREATED MIDDLE DISTILLATE (PETROLEUM) @ 115C.
 (CONCENTRATE)

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

Section 07: HANDLING AND STORAGE

STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
 ENGINEERING CONTROLS..... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
 HANDLING PROCEDURES AND EQUIPMENT..... STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
 SYNERGISTIC MATERIALS..... NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... NOT NORMALLY REQUIRED.
 RESPIRATORY/TYPE..... IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.
 EYE/TYPE..... SAFETY GLASSES.
 FOOTWEAR/TYPE..... NOT NORMALLY REQUIRED.
 OTHER/TYPE..... NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.
 APPEARANCE..... DARK AMBER CLEAR OILY LIQUID.
 ODOR..... HYDROCARBON.
 ODOR THRESHOLD..... NOT AVAILABLE.
 VAPOUR PRESSURE(PSIG)-AEROSOL..... 75-85.
 @ 20 C
 BOILING POINT (°C)(CONC)..... >260 deg C.
 EVAPORATION RATE..... LESS THAN 1.
 n-BUTYL ACETATE = 1
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.
 (BY WEIGHT)
 SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.
 pH..... NOT APPLICABLE.
 SPECIFIC GRAVITY (LIQUID)..... 0.80-0.86.
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.
 FREEZING POINT: (°C)..... NOT AVAILABLE.
 AEROSOL PERCENT VOLATILE..... NOT AVAILABLE.
 (BY WEIGHT).

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF
 DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 CHEMICAL STABILITY:
 YES..... UNDER NORMAL CONDITIONS.
 NO, WHICH CONDITIONS?..... NOT APPLICABLE.
 COMPATIBILITY WITH OTHER SUBSTANCES:
 NO, WHICH ONES?..... STRONG OXIDIZING AGENTS.
 REACTIVITY CONDITIONS?..... NOT APPLICABLE.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS..... NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.
 IRRITANCY OF MATERIAL..... SKIN/EYE IRRITANT.
 SENSITIZING CAPABILITY OF MATERIAL..... UNKNOWN.
 CARCINOGENICITY OF MATERIAL..... THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC,(INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).
 TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

PRODUCT: PENETROL

Section 11: TOXICOLOGICAL INFORMATION

MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL..... NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.2).
D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

Section 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION..... A,D2B.
CNFC SECTION 3.3.5..... LEVEL 1.
CEPA (Canadian Environmental Protection Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:

HMIS RATING HEALTH..... 1 SLIGHT HAZARD.
HMIS RATING FLAMMABILITY..... 1 SLIGHT HAZARD.
HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.
HMIS RATING PERSONAL PROTECTION..... B.
NFPA CODE 30B..... LEVEL 1.
SARA 313 INFORMATION:..... THIS PRODUCT CONTAINS NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.
CAS #: CHEMICAL NAME:
N/A.

CALIFORNIA PROPOSITION 65:..... THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:
WARNING: THIS PRODUCT DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
. CAS #: CHEMICAL NAME:
. N/A.

TSCA (Toxic Substances Control Act)..... ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.
VOC (w/w%)..... NOT AVAILABLE.

Section 16: OTHER INFORMATION

NOTICE FROM MAXIM TECHNOLOGIES INC..... THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY MAXIM TECHNOLOGIES INC. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. MAXIM TECHNOLOGIES INC. ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

PREPARED BY..... MAXIM TECHNOLOGIES INC.
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