

MATERIAL SAFETY DATA SHEET

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SECTION I – PRODUCT IDENTIFICATION

Manufacturer: Powermaster Hobby Products, Inc.
P. O. Box 650
Elgin, Tx. 78621

Information Phone: 800-847-9086
Emergency Phone: 800-424-9300
International: 703-527-3887

Hazard Ratings: Health – 2
Fire – 3
Reactivity – 0

None -> Extreme
0 ----- > 4

Product Class:
Trade Name: POWERMASTER Model Engine Fuel
Product Code: PM Fuel
CAS Number: N/A – Mixture

SECTION II – INGREDIENTS

Ingredients	CAS #	Weight %	ACGIH/TLV	OSHA/PEL	mm HG
Methanol	67-56-1	> 75	200 ppm STEL 250ppm	200 ppm 250 ppm	97.7 @ 68F
Alkylube	25322-68-3	0-23	N.E. STEL N.E.	N.E. N.E.	N/AV
Castor Oil	8001-79-4	0-29	N.E. STEL N.E.	N.E. N.E.	N/AV N/AV
Nitroethane	79-24-3	0-5	100 ppm STEL N.E.	100 ppm N.E.	20.9 @ 77F
Nitromethane	75-52-5	0-70	100 ppm	100 ppm	36.7 @ 77F

All ingredients in this product are listed in the T.S.C.A. Inventory. N.E. = Not Established

SECTION III – PHYSICAL DATA

Boiling Range: 145 – 237 Deg. F. Vapor Density: Heavier than Air
Evap. Rate: 4136 x n-Butyl Acetate Liquid Density: Lighter than Water
Volatiles – Vol % 65 – 88 Wgt % 60 – 85 7.02 – 8.8 lbs.
Specific Gravity – Average 0.84274
Appearance: Transparent Clear, Red, Blue or Green Liquid

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flammability – Class 1-B Flash Point: 54 F TCC LEL: N/D UEL: N/D
EXTINGUISHING MEDIA:
Carbon Dioxide – Dry Chemical – Foam – Water Fog
Use water for cooling material stored in vicinity of fire.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA (Cont.)

SPECIAL FIREFIGHTING PROCEDURES:

Use self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Avoid spreading burning liquid with water used for cooling purposes.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges. Mists or sprays may be flammable at temperatures below flash point.

CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty Containers may explode.

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SECTION V – HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

No TLV Established.

ACGIH recommends a TLV for Methanol of 200 ppm (skin).

EFFECTS OF OVEREXPOSURE:

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Skin: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. Persons with pre-existing skin disorders may be more susceptible to this product.

Breathing: Excessive inhalation of vapors and/or spray mist can cause respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness and even asphyxiation.

Swallowing: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea, blindness and death.

FIRST AID:

Eyes: Flush with large amounts of water, lifting eyelids occasionally; get prompt medical attention.

Skin: Wash thoroughly with soap and water, remove contaminated clothing promptly; wash clothing before reuse.

Swallowing: Immediately drink two glasses of water and induce vomiting by either giving syrup of Ipecac or by placing finger at back of throat.

NOTE TO PHYSICIANS: This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

Breathing: Move affected person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

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SECTION VI – REACTIVITY DATA

STABILITY: () Unstable (x) Stable

HAZARDOUS POLYMERIZATION: () May Occur (x) Will not occur

IMCOMPATIBILITY: Avoid contact with strong oxidizing agents

CONDITIONS TO AVOID: Keep away from heat, sparks and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: May form carbon monoxide and dioxide, various hydrocarbons, etc.

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SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: Keep away from ignition sources (electrical, hot surfaces, etc.). Pick up spill with absorbent material.

LARGE SPILL: Contain spill to prevent entry into drains, sewers or waterways. Ventilate and keep traffic from area. Remove with absorbent material (or flush or vacuum) to closed container.

WASTE DISPOSAL METHOD:

Recovered material should be packaged, labeled, transported, disposed of or reclaimed in compliance with applicable laws and regulations and in conformance with good safety and engineering practices.

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SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If TLV of the product is exceeded, a NIOSH/MSHA jointly approved air supply respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure. Select respirators based on form and concentration of contaminant in air. Adhere to 29 CFR 1910.134.

VENTILATION:

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

PROTECTIVE GLOVES:

Chem./solvent resistant for prolonged contact.

EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations so permit other type safety glasses. (Consult your safety equipment supplier).

OTHER PROTECTIVE EQUIPMENT:

Boots, aprons, chem.-resistant suits where deemed necessary to avoid contact during prolonged exposure.

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SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

“Empty” containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION – THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

Keep product away from heat, sparks, pilot lights, static electricity and open flame. Keep container closed.

OTHER PRECAUTIONS:

Employees must practice good personal hygiene, washing exposed skin several times daily and laundering contaminated clothing before reuse.

ADDITIONAL COMMENTS:

DOT Hazard Classification: 3

DOT Shipping Name: Flammable liquid, N.O.S. (Contains Methanol and Nitromethane).

DOT LD. No. UN 1993

Packing Group II

May be shipped in small quantities as: LTD. QTY. or Consumer Commodity, ORM-D

The information presented herein is believed to be factual. It has been derived from the work
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SECTION IX – SPECIAL PRECAUTIONS (Cont.)

and opinion of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a legal warranty of representation for which Powermaster Hobby Products, Inc. bear legal responsibility. The user should review any recommendations in the specific context of the intended use to determine if they are applicable.

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SECTION X – ADDITIONAL REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals 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	PERCENT BY WEIGHT
67-56-1	Methanol	50-75

PROP 65 (CARCINOGEN)

WARNING: This product may contain a chemical known to the State of California to cause cancer.

CAS #	Chemical Name
■	None

PROP 65 (TERATOGEN)

WARNING: This product may contain a chemical known to the State of California to cause birth or other reproductive harm.

CAS #	Chemical Name
■	None

PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

WARNING: This product may contain a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

CAS #	Chemical Name
■	None