Safety Data Sheet

M-601

Section 1: Product and Company Identification

Manufacturer	Ideas Additives LLC 625 S Main St. Lombard, IL 60148
Telephone	(630) 620-2010 **Fax** (630) 620-2014
Product Names	M-601
Recommended Use	Non-Chlorinated EP Additive
Restrictions on Use	For industrial/commercial use only
Emergency Contact / Number	(630) 620-2010

Section 2: Hazard Identification

Hazards

Flammable liquid	Category 4, Combustible liquid
Acute toxicity, inhalation	Category 4, Harmful if inhaled
Acute toxicity, oral	Category 4, May be harmful if swallowed
Carcinogenicity	Category 2, Suspected of causing cancer
Germ cell mutagenicity	Category 1B, May cause genetic defects
Eye damage/irritation	Category 1, Causes serious eye damage
Skin corrosion/irritation	Category 1C, Causes severe skin burns and eye damage
Sensitization, skin	Category 1, May cause an allergic skin reaction
Toxic to reproduction	Category 2], Suspected of damaging fertility or the unborn child



Signal Word Danger

Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or spray. Wash skin and contact areas thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response: In case of fire: Use items and procedure in Section 5 to extinguish. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Call a poison control center or doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a poison control center or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage and Disposal: Store locked up in a well-ventilated place. Keep cool. Dispose of contents and container according to local, state/provincial, and federal regulations.

Section 3: Composition/Information on Ingredients

Component	CAS#	Concentration
Petroleum oil	64742-52-5	50 - 80
Amine phosphate compounds	Mixture	20 – 50
Trimethyl phosphate	512-56-1	<1

Section 4: First Aid Measures

General advice: Move out of dangerous area. Consult a physician if concerned. Show this safety data sheet to the doctor in attendance. Adverse effects may be delayed.

If inhaled: If victim is breathing move to fresh air. If not breathing, give artificial respiration. Consult a physician if adverse health effects occur and persist.

In case of skin contact: If on skin or hair immediately take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

In case of eye contact: Flush eyes with clean, lukewarm water for at least 15 minutes while holding eyelids open. Remove contacts. Get medical attention, preferably an ophthalmologist, if irritation occurs and persists.

If swallowed: Never give anything by mouth to an unconscious person. Give water if victim is conscious. Do not induce vomiting without medical direction. Keep head below hips if vomiting occurs to prevent aspiration. Seek medical attention.

Most important symptoms/effects, acute and delayed: Eye or skin damage or pain

Indication of immediate medical attention and special treatment needed, if necessary: Ongoing eye or skin pain or respiratory discomfort.

Section 5: Firefighting Measures

Suitable and Unsuitable Extinguishing Media: Product will burn at high temperatures. Use water spray or fog, dry chemical, foam. High pressure water stream may spread fire. No known unsuitable materials.

Specific Hazards Arising from the Chemical: May produce CO, CO_2, decomposition products, flammable gases, and acrid or harmful vapors in a fire. Closed containers may rupture or explode when exposed to extreme heat.

Specific Protective Equipment and Precautions for Fire-Fighters: Follow good fire-fighting practices. Avoid breathing vapors and mists. Use a water spray to cool fire-exposed containers, structures and to protect personnel. Do not enter enclosed area without a positive pressure, NIOSH-approved self-contained breathing apparatus. Closed containers may explode from high heat.

Section 6: Accidental Release Measures

Personal Precautions: Affected area may be slippery. Isolate release area and keep unnecessary or untrained people away. Avoid skin or eye contact with spilled material. See Section 8 for personal protection gear.

Environmental Precautions: Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers, or waterways. Advise EPA, state, or local agencies as required.

Methods for Cleaning Up: Stop leak if you can without risk. Do not discharge to the environment. Transfer to labeled, sealable containers for product recovery or safe disposal. Small spills can be handled using absorbent material and transferred to containers for disposal. Larger spills should be diked and absorbed with binding agents such as sand or vermiculite to prevent runoff to the environment or sewer. If material is too viscous for pumping scrape it up with shovels into suitable containers for recycle or disposal. Contact supplier in Section 1 and see Section 13 for disposal information.

Section 7: Handling and Storage

Precautions for safe handling: Wear protective clothing to prevent or minimize contact. Use good ventilation and follow all procedures and precautions for handling chemicals.

Conditions for safe storage, including any incompatibilities: Best stored in a dry place at 50 – 90 °F. Reseal lid on container after use. Store only in original or compatible, clearly labeled container. Contact Ideas if concerned about containment vessel compatibility.

Section 8: Exposure Control and Personal Protection

Exposure Limits

Component Name	ACGIH	OSHA
Petroleum distillates (CAS 64742-52-5)	5 mg/m3	5 mg/m3

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to maintain good air quality and keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eye/face protection: Wear safety glasses or chemical safety goggles; use face shield when working with large amounts or when splashing is possible.

Skin protection: Wear protective clothing or gloves to avoid contact. Clean or wash contaminated clothing before reusing.

Respiratory protection: Maintain good ventilation or air flow. Wear suitable respiratory protection to avoid inhalation of aerosol particles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Yellow or amber liquid	**Flash Point (PMCC)**	140 – 200 °F
Specific Gravity (Water=1)	0.9 – 1.0	**Upper Flammability Limits**	Not Determined
Evaporation Rate (ether = 1)	<1	**Lower Flammability Limits**	Not Determined
pH	Not Applicable	**Auto-ignition Temperature**	Not Determined
Solubility in Water	Insoluble	**Decomposition Temperature**	Not Determined
Odor	Mild petroleum	**Vapor Pressure**	Not Determined
Odor Threshold	Not Determined	**Vapor Density (Air-=1)**	Not Determined
Melting/Freezing Point	Not Determined	**Partition Coefficient (n-octanol/water)**	Not Determined
Boiling Range	Not Determined	**Viscosity (cSt @ 40 °C)**	>20 cSt
Initial Boiling Point	Not Determined	**Critical Temperature**	Not Determined
Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal storage and use conditions
Chemical Stability: Stable under normal storage and use conditions
Possibility of Hazardous Reactions: Will not react under normal conditions. May react with strong oxidants or reductants.
Conditions to Avoid: Extreme hot or cold, high temperatures or open flame
Incompatible Materials: Strong acids, strong oxidizing agents
Hazardous Decomposition Products: CO and CO_2, flammable gases, or vapors in a fire or at high temperature.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Effects: Likely routes of exposure are skin and eye contact. Eye contact may be painful or injurious. Short term contact with skin is unlikely to cause problems but may be injurious if not promptly washed off. Excessive or prolonged and repeated contact and poor hygiene conditions may result in injury, dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin. Inhalation may cause respiratory irritation or damage. Swallowing material may cause damage or irritation of gastrointestinal tract, nausea, vomiting, diarrhea, or abdominal pain depending on the individual's sensitivity and the amount ingested.

Chronic Toxicity Effects: Long term or repeated exposure may aggravate any acute symptoms.
Respiratory or skin sensitization: May cause an allergic skin reaction
Germ cell mutagenicity: Components identified as mutagenic: Trimethyl phosphate
Carcinogenicity: Components identified by NTP, OSHA or IARC as carcinogenic: Trimethyl phosphate
Reproductive toxicity: Trimethyl phosphate is suspected of damaging fertility or the unborn child.
Summary of evaluation of the carcinogen, mutagen and reproductive properties: Trimethyl phosphate shows limited evidence of a carcinogenic effect. Carcinogenicity results were both positive and negative in a two-year gavage study with rats and mice. In a 30-month drinking water study using trimethyl phosphate, results were negative when tested on rats. In various teratogenicity tests using trimethyl phosphate, rats, mice and rabbits tested positive for spermatogenesis.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: This product has not been tested. Based on its main components it may be hazardous to the aquatic environment.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Results of PBT and vPvB assessment: No data available.
Endocrine disrupting properties: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not dispose to sewer. Avoid release to the environment. Dispose of material and empty containers in accordance with local, state/province, and federal environmental regulations. Packaging may contain product residues. Clean thoroughly before discarding.

SECTION 14: TRANSPORT INFORMATION

DOT	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated

SECTION 15: REGULATORY INFORMATION

Chemical Inventories	All ingredients are listed or exempt from listing on the following inventories TSCA, active (U.S.), and DSL (Canada)
SARA 311/312 Reporting Categories	Acute
SARA 313 Reportable Ingredients	None
California Prop 65	Trimethyl phosphate (CAS 512-56-1) cancer

SECTION 16: OTHER INFORMATION

NFPA Rating	Health=2; Flammability=1; Reactivity=0
Department Issuing SDS	Health and Safety

Disclaimer

The information appearing in this document is based upon data obtained from raw material manufacturers and/or recognized technical sources. While this information is believed to be correct IDEAS ADDITIVES LLC makes no representations as to its accuracy or sufficiency, usage, or hazards connected with the use of this material. Since this product may be applied under conditions unfamiliar to us or beyond our control, we claim no responsibility for the results of its use, and users are responsible for the verification of the information under their own operating conditions to determine whether the product is suitable for their particular purposes, and these users assume all risks of their use, handling, and disposal of the product. This information relates only to the product designated above and does not relate to its use in combination with any other process.