MSDS (Material Safety Data Sheet)

Section 1 : Product and Company Identification

Product Name:	Color Flame Torch Oil (red, orange, gold, blue, green)
Product UPC ID:	086861091883 – 12fl oz / 354 mL red colored flame
	086861091913 – 12fl oz / 354 mL blue colored flame
	086861091920 – 12fl oz / 354 mL green colored flame
Appearance:	Clear, colorless liquid and characteristic odor
HS Number:	3814-00-1090
Distributor:	Lamplight Farms Inc.
Address:	4900 N. Lilly Road
	Menomonee Falls, WI 53051
Telephone:	1-800-645-5267
Emergency Call:	Prosar 1-800-308-7141
Date prepared:	April 14, 2010

Section 2 : Hazards Identification

EMERGENCY OVERVIEW : Extremely flammable liquid and vapor. Vapor may cause flash fire. Harmful if inhaled or absorbed through skin. Cannot be made nonpoisonous. Causes irritation to skin, eyes and respiratory tract. May cause light-headedness, fatigue, vomiting, and headache. Affects central nervous system, heart and liver. Ingestion can cause irreversible injury to the nervous system, blindness, or death. Blue formula contains methylene chloride which may cause cancer. The risk of cancer depends on the level and duration of exposure. Avoid liquid, mist, or vapor contact. Avoid breathing vapors. For lighting purpose, use it outdoors with good ventilation.

POTENTIAL HEALTH EFFECTS

INHALATION:	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, and possibly death depending on exposure. The blue formula contains methylene chloride. Overexposure to methylene chloride may affect the heart by elevating carboxyhemoglobin in the

	blood.
INGESTION:	Very toxic. Similar symptoms to those from inhalation. Can intoxicate and cause blindness. If vomiting results in aspiration, chemical pneumonia could follow.
SKIN CONTACT:	Causes skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure.
EYE CONTACT:	Irritant. Continued exposure may cause eye lesions.
CHRONIC EXPOSURE:	Prolonged occupational overexposure may cause effects on vision and damage to the kidneys, liver, lungs and cardiovascular system. Methanol has have been found to cause adverse reproductive effects and/or birth defects in studies with laboratory animals. Methylene chloride has been shown to cause reproductive toxicity and/or birth defects only at doses that produce significant toxicity in the parent animal. Methylene chloride exposure may cause cancer.

Section 3 : Composition / Information on Ingredients –

various colors include some or all of the following:

Component	Content (Weight %)	CAS No
Methanol	75-85 %	67-56-1
Acetone	15-25 %	67-64-1
Mineral Oil	2 %	Proprietary
Methylene Chloride (in blue formulas only)	Less than 3 %	75-09-2
Various metallic salts, including copper salt (in blue formula only)	Each Less than 2 %	Proprietary
Boric acid (in green formula only)	Less than 2%	10043-35-3

Section 4 : First Aid Measures

EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek immediate medical attention.
SKIN CONTACT:	Wash skin with soap and water while removing contaminated clothing and shoes. Seek medical attention if irritation or other symptoms develop. Launder contaminated clothing before reuse.

INHALATION:	Remove to fresh air. If not breathing, give artificial respiration, and get medical attention immediately.
INGESTION:	**If swallowed, do not induce vomiting.** Get medical attention immediately.

Section 5 : Fire Fighting Measures

Fire Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog

Special Information: In the event of a fire, wear full protective clothing and apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Fire and Explosion Hazards: Extremely flammable liquid and vapor. Vapors are heavier than air and can travel along surfaces to remote ignition sources and flash back. Vapors may collect in low areas or confined spaces and present a fire or explosion hazard. Flames may be invisible in daylight. Combustion products may be toxic.

Section 6 : Accidental Release Measures

Eliminate all sources of heat and ignition including pilot lights and electric motors. Ventilate area of leak or spill using explosion-proof equipment if needed. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer.

Section 7 : Handling and Storage

Do not swallow. Avoid breathing vapors and combustion products. Avoid contact with eyes, skin and clothing. For outdoor use only with adequate ventilation. Do not puncture container. Keep product out of direct sunlight and away from heat, hot surfaces, flames, pilot lights, sparks and all other sources of ignition until ready to use. Never leave a lit flame unattended.

Storage and use areas should be No Smoking and Eating Areas. Keep in a tightly closed container. Store product upright in a cool, dry, ventilated area. Protect against physical damage. Observe all warnings and precautions listed for the product

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Section 8 : Exposure Controls/Personal Protection

Exposure Limits

Component	Occupational Exposure Limits
Methanol	200 ppm TWA OSHA PEL 200 ppm TWA, 250 ppm STEL skin ACGIH TLV
Acetone	1000 ppm TWA OSHA PEL 500 ppm TWA, 750 ppm STEL ACGIH TLV
Mineral Oil	5 mg/m3 TWA OSHA PEL 5 mg/m3 TWA, 10 mg/m3 STEL ACGIH TLV

Methylene Chloride (in blue formulas only)	25 ppm TWA, 125 ppm STEL OSHA PEL 50 ppm TWA ACGIH TLV
Copper salt (as Cu)	1 mg/m3 TWA OSHA PEL and ACGIH TLV
Boric acid (in green formula only)	2 mg/m3 (inhalable) TWA, 6 mg/m3 (inhalable) STEL ACGIH TLV

Ventilation System:	A system of local and/or general exhaust is recommended to keep employee exposures below the Occupational Exposure Limits. Local exhaust ventilation is generally preferred
Personal Respirators:	For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.
Skin Protection:	Wear protective gloves and clean body-covering clothing.
Eye Protection:	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9 : Physical and Chemical Properties

Appearance: Clear, colorless liquid.
Odor: Characteristic odor.
Solubility: Miscible in water, organic solvent
Specific Gravity: gold 0.796 , red 0.799, blue 0.821, green 0.798, orange 0.799
pH: gold 8.72, red 5.35, blue 2.69, green 6.25, orange 6.05
% Volatiles by volume @ 21 (70F): 99%
Boiling Point: 133.0 degrees F
Melting Point: - 139.32 degrees F
Vapor Density (Air=1): Greater than 1
Vapor Pressure (mm Hg): 231 mmHg @ 25 degrees C
Evaporation Rate (BuAc=1): Greater than 1
Flash point: 10.0 degrees F Tag Closed Cup
Autoignition temperature: 870 degrees F
Flammable limits in air % by volume: lel: 6.12; uel: 30.28

Section 10 : Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, hydrogen choride, chlorine gas, copper oxides, and boron oxides
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid.
Conditions to Avoid :	Heat, flames, ignition sources, ultraviolet light, water (absorbs readily) and incompatibles.

Section 11 : Toxicological Information

Toxicological Data:

Methyl Alcohol (Methanol)(67-56-1)	Oral rat LD50: 5628 mg/kg; inhalation rat LC50: 64000 ppm/4H; skin rabbit LD50: 15800 mg/kg; Irritation data-standard Draize test: skin, rabbit: 20mg/24 hr. Moderate; eye, rabbit: 100 mg/24 hr. Moderate. Investigated as a mutagen, reproductive effector.
Methylene Chloride(75-09-2) (for blue formulas only)	Oral rat LD50: 1600mg/kg; inhalation rat LC50: 52gm/m3; investigated as a tumorigen, mutagen. Reproductive effector.
Boric Acid (green formula only)	Oral rat LD50: 2660 mg/kg; Reproductive effector.

Carcinogenicity:

Methylene Chloride (for blue formula only) (75-09-2)	Methylene chloride is classified as a group 2B carcinogen by IARC, as reasonably anticipated to be a carcinogen by NTP and is regulated as a carcinogen by OSHA..

Section 12. Ecological Information

Ecological Fate: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater and maybe hazardous to aquatic life. When released into the soil, this material is not expected to evaporate significantly. Water release should be notified to local health and wildlife authorities.

Section 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Disposal regulations may differ from federal disposal regulations.

Section 14. Transport Information

Proper Shipping Name: Consumer Commodity ORM-D

US Hazmat Classification: UN1993, Flammable Liquid, n.o.s. (Methanol, Acetone), 3, II
International Dangerous Goods Classification: UN1992, Flammable Liquid, toxic, n.o.s. (Methanol, Acetone), 3 (6.1), II

Not suitable for air shipment.

Section 15. Regulatory Information

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health, fire hazard

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title lll, Section 313 (40 CFR 372):

Methanol	67-56-1	75-85%
Methylene Chloride (blue formula only)	75-09-2	<3%
Copper compounds (blue formula only)	Proprietary	<2%

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methanol (85% maximum) of 5,000 lbs, is 5,880 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

For blue only: This product contains Methylene Chloride a chemical known in the State of California to cause cancer.

Section 16. Other Information

National Fire Protection Association hazard ratings for the formula (all colors)

Health hazard 2
Flammability 3
Instability 0

Revision Summary
June 11,2009 – Original document Rev 0 created
April 14, 2010 – Added UPC ID to section 1

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Reference information

Baker. J. T., *Mallinckrodt Chemicals*. Fisher.,