

SAFETY DATA SHEET

LITHOTECH



International P/L

BM Management cc

2 in 1 Fountain Solution

Chemical product and company identification

Common name : **2in1 Fount Solution**

Supplier : LithoTech International P/L
114 Lang Rd
Moore Park
NSW 2021
Australia

PO Box 535
Randwick
NSW 2031
Australia
Tel: +61 2 93606970
Fax: +61 2 9806203
E-Mail: enquiry@lti.com.au
Web: www.lti.com.au

Chemical name : Mixture

Trade name : 2 in 1 fount

Material uses : *Industrial applications: Replaces
conventional 2 pack founts in
lithographic offset printing*

Manufacturer : BM MANAGEMENT JOHANNESBURG
(PTY) LTD
Unit 12
10 Covora Street,
Jet Park
Johannesburg
Johannesburg
Gauteng
South Africa 1600
SOUTH AFRICA
Tel: +27-11-397-8789
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Email: bmm@mweb.co.za

Emergency Numbers:	South Africa	+27-83-633-7632 Carol Moore
	Australia	131126 +61 419 536761 Dr. Tim Roberts
	New Zealand	0800-764766

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Composition / information on ingredients

Name	CAS #	% by weight
Normal Propyl Alcohol	71-23-8	Min 80-85
Water softener	NON toxic to E.U. standards	<2
Anti corrosion agent	NON toxic to E.U. standards	<1
1,3 Pentanediol, 2,2,4-Trimethyl-Monoisobutyrate	25265-77-4	<2
Cleaner (Trade secret)	NON toxic to E.U. standards	2-4%
Phosphate	7601-54-9	<3
Nitrate	7631-99-4	<1
Citrate Buffer	77-92-2 / 6132-04-3	<8

Hazards identification

Physical state and appearance	: Blue Liquid.
Emergency overview	: FLAMMABLE LIQUID AND VAPOUR. VAPOUR MAY CAUSE FLASH FIRE. RISK OF SERIOUS DAMAGE TO EYES. VAPOURS MAY CAUSE DIZZINESS AND DROWSINESS. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry	: Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: H319 Risk of serious irritation to eyes.
Skin	: H317 Hazardous in case of skin contact. May cause an allergic skin reaction.
Inhalation	: H336 Vapours may cause dizziness and drowsiness.
Ingestion	: Hazardous in case of ingestion.
Potential chronic health effects	: CARCINOGENIC EFFECTS: Classified None . by OSHA, None . by NIOSH. MUTAGENIC EFFECTS: Not listed. TERATOGENIC EFFECTS: Not listed.
Medical conditions aggravated by overexposure:	: Persons with pre-existing eye, skin, respiratory, neurological or allergic conditions may be more sensitive. n-Propanol enhances the CNS effect of m-dinitrobenzene, hence persons also exposed to this chemical may be more sensitive.
Overexposure/signs/symptoms	: Dizziness, inco-ordination, headache, confusion, stupor, hematemesis, diarrhea, circulatory collapse, persistent coma, death by respiratory arrest. Late manifestations: aspiration pneumonia, kidney and liver dysfunction, which are usually mild and transient, but the renal impairment may be serious.

First aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.
Skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms

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Inhalation

appear.
: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion

: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. If large quantities of this material are swallowed, call a physician immediately.

Fire fighting measures

Flammability of the product	: Flammable.
Auto ignition temperature	: 500°C
Flash points	: open cup: 39°C closed cup 23.5°C
Flammable limits	: LOWER: 14% UPPER: 25%
Products of combustion	: These products are carbon oxides (CO, CO ₂).
Fire hazards in presence of various substances	: Flammable in presence of open flame and sparks, of heat, of oxidizing materials.
Explosion hazards in presence of various substances	: Risks of explosion of the product in presence of mechanical impact: none Risks of explosion of the product in presence of static discharge: not available.
Fire fighting media and instructions	: Slightly explosive in the presence of oxidizing materials. : Flammable Liquid, soluble in the water Small Fires: Use dry chemicals, CO ₂ , alcohol foam or water spray Large Fires: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Protective clothing (fire)	: Wear MSHA/OHSA approved self-contained breathing apparatus or equivalent and full protective gear..
Special remarks on fire hazards	: Explosive in the form of vapour when exposed to heat or flame.
Special remarks on explosion hazards	: No additional information.

Accidental release measures

Small spill and leak	: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill and leak	: Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

Handling and storage

Handling	: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Storage	: Store in an approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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Exposure controls, personal protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Splash goggles.
Body : Chemical resistant protective suit.
Respiratory : Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands : Butyl rubber gloves.
Feet : Chemical resistant safety boots.

Protective clothing (pictograms)



Personal protection in case of a large spill : Splash goggles. Full suit. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product name
2 in 1 Fount (containing n-propanol)

Exposure limits
-OSHA Permissible Exposure Limit (PEL):
200 ppm (TWA), 250 ppm (STEL)
-ACGIH Threshold Limit Value (TLV):
100 ppm (TWA)

Physical and chemical properties

Physical state and appearance : Liquid.
Color : Blue
Odor : Alcohol like. (Slight.)
Taste : Burning. (Strong.)
Molecular weight : Not applicable
Molecular formula : Not applicable
pH (12% soln / water) : 4.6 – 4.9 pH neat 4.6 – 4.9
Boiling/condensation point : 95°C-110°C
Melting/freezing point : -15°C
Critical temperature : The lowest known value is 263.7°C (Propanol)

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Specific gravity	: 0.866 (Water=1)
Vapor pressure	: 10 mm of Hg (@ 20°C)
Vapor density	: 1.2 (Air=1)
Volatility	: 80% (v/v). (Propanol)
Odor threshold	: The highest known value is 30 ppm (Propanol) Weighted average: 27 ppm
Evaporation rate	: 0.8 (Butyl acetate=1)
VOC	: 80%
Viscosity	: The highest known value is 2.256 cP (Propanol)
LogK_{ow}	: N/A
Ionicity (in water)	: N/A
Dispersion properties	: See solubility in water, methanol, diethyl ether.
Solubility	: Easily soluble in cold water or hot water.

Stability and reactivity

Stability and reactivity	: The product is stable.
Conditions of instability	: Heat, sparks and flames.
Incompatibility with various substances	: Incompatible with nitrates, strong oxidizers, acids and alkalis. Ignites in contact with potassium-tert-butoxide.
Hazardous decomposition products	: Emits acrid smoke and irritating fumes. May release Carbon monoxide.
Hazardous polymerization	: Will not occur.

Toxicological information

Toxicity to Animals	: WARNING: the LC50 values hereunder are estimated on the basis of a 4-hour exposure. Acute oral toxicity (LD50) : 20000 mg/kg [RAT.]. Propanol). Very small Acute dermal toxicity (LD50) : 40000 mg/kg [RABBITS]. (Propanol). Unlikely Acute toxicity of the vapour (LC50) : 40000 ppm 4 hour(s) [RAT]. Propanol Very slightly
Chronic effects on humans	: CARCINOGENIC EFFECTS: Classified NONE by OSHA, NONE by NIOSH Propanol content MUTAGENIC EFFECTS: None Non-mutagenic for mammals. (Propanol). Mutagenic for bacteria and/or yeast. (Propanol) TERATOGENIC EFFECTS: Classified nil DEVELOPMENTAL TOXICITY: Not Classified Reproductive system, toxin/female, reproductive system/toxin/male The substance is mildly toxic to lungs, cardiovascular system, skin.
Other toxic effects on humans	: Irritant to eyes. Risk of serious damage to eyes. Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation
Special remarks on toxicity to animals	: No additional remark.
Special remarks on chronic effects on humans	: Can cause Gastrointestinal disturbances.
Special remarks on other toxic effects on humans	: Exposure over very long periods may cause nausea, headache and vomiting. (Propanol association)

Ecological information

Ecotoxicity	: Not available
BOD and COD	: Not available

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Biodegradable/OECD : Not available
Mobility : Not available
Products of degradation : Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the products of biodegradation : The products of degradation are less toxic than the product itself.
Special remarks on the products of biodegradation : No food chain concentration potential. (Propanol association)

Disposal considerations

Waste information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste stream : Hazardous waste: Ignitable RQ is 120 lbs.
Consult your local or regional authorities.

Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
DOT Classification	UN 1987	ALCOHOL, n.o.s	DOT Class 3 :Flammable liquid.	II		
TDG Classification	UN 1987	ALCOHOL, n.o.s	TDG Class 3:Flammable liquid.	II		-
IMDG Class	UN 1987	ALCOHOL, n.o.s	IMDG Class 3 :Flammable liquid.	II		-EMS No. 3 / 06
IATA-DGR Class	UN 1987	ALCOHOL, n.o.s	IATA Class 3 :Flammable liquid.	II		-Tremcard No. 2 (SE 1987)

Regulatory information

HCS classification : Class: Flammable liquid having a flash point lower than 37.8°C (100°F) closed cup.
Australian Hazchem Code: : 2[S]E
Poison Schedule: None allocated.

EU Regulations
Hazard symbol(s)



Classification
Risk phrases

: Highly flammable, Irritant
 : R11- Highly flammable.
 : R41- Risk of serious damage to eyes.

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Safety phrases

- R67- Vapors may cause drowsiness and dizziness.
: S7- Keep container tightly closed.
S16- Keep away from sources of ignition - No smoking.
S24- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39- Wear eye/face protection.

EINECS Number

: 200-746-9

Other information

National Fire Protection Association (U.S.A.)

:



References

: -

Other special considerations

: No additional remark.

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Verified by

: Dr. TMB Roberts BVSc. MRCVS

Notice to reader

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since B.M.Management and its subsidiaries cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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