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Material Safety Data Sheet

PRO-WASH[™]D Detergent Removable Paint Marker - White, Yellow, Red, Black, Green, Blue

1. Product and company identification					
Product name	: PRO-WASH [™] D Detergent Removable Paint Marker - White, Yellow, Red, Black, Green, Blue				
Material uses	: FOR INDUSTRIAL USE ONLY Temporary marker for metal, aluminum, glass, plastic and other non-porous surfaces.				
Code	: 97010 (White), 97011 (Yellow), 97012 (Red), 97013 (Black), 97016 (Green), 97015 (Blue)				
Supplier/Manufacturer	: LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746				
MSDS authored by	: KMK Regulatory Services Inc.				
In case of emergency	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887				

2. Hazards identification

This MSDS reflects the health, physical and environmental hazards of the liquid ink contained within the pen/marker. Because of the nature of the finished product i.e. the fact that the ink is held internally within the pen/marker inside a closed (sealed) container, and given that the liquid is present in a small quantity and is released in very small amounts during normal use, the user of the product and/or the reader of this MSDS should consider the potential exposure to the ink to be minimal and controlled during the normal use of the product. Refer to relevant sections of the SDS (7 and 13) for additional information on handling and disposal considerations. To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT open, heat, burn or expose it to a source of intense heat, as this could release the ink.

Emergency overview

Physical state	quid. [in cylindrical marker]	
Color	hite. Yellow. Red. Black. Green. Blue.	
Odor	cohol-like.	
Hazard statements	DT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEAL HE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOW	
OSHA/HCS status	hile this material is not considered hazardous by the OSHA Haza andard (29 CFR 1910.1200), this MSDS contains valuable inform fe handling and proper use of the product. This MSDS should be ailable for employees and other users of this product.	nation critical to the
Routes of entry	ermal contact. Eye contact. Inhalation. Ingestion.	
Potential acute health effect		
Inhalation	b known significant effects or critical hazards.	
Ingestion	b known significant effects or critical hazards.	
Skin	b known significant effects or critical hazards.	
Eyes	b known significant effects or critical hazards.	
Potential chronic health effe		
Chronic effects	b known significant effects or critical hazards.	
Carcinogenicity	b known significant effects or critical hazards.	
Mutagenicity	b known significant effects or critical hazards.	
Teratogenicity	b known significant effects or critical hazards.	
Developmental effects	b known significant effects or critical hazards.	
Fertility effects	b known significant effects or critical hazards.	
Target organs	o known significant effects or critical hazards.	

2. Hazards identification

Over-exposure signs/symptoms

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	No specific data.
Eyes	:	No specific data.
Medical conditions aggravated by overexposure	:	None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States CAS number % Name 67-63-0 60 - 100 Canada Canada Canada

Name	CAS number	%
Propan-2-ol	67-63-0	60 - 100

<u>Mexico</u>

						Cla	ssific	ation
Name	CAS number	UN number	%	IDLH	Η	F	R	Special
Propan-2-ol	67-63-0	UN1219	60 - 100	2000 ppm	1	3	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures					
Eye contact	: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.				
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if irritation occurs.				
Inhalation	: Move exposed person to fresh air. Get medical attention if symptoms occur.				
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.				
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.				
Notes to physician	 No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 				

5. Fire-fighting measures

Flammability of the product	ammable liquid. The vapor/gas is heavier than air and will sprea apors may accumulate in low or confined areas or travel a consid burce of ignition and flash back. Runoff to sewer may create fire	lerable distance to a
Extinguishing media		
Suitable	se dry chemical, CO ₂ , water spray (fog) or foam.	
Not suitable	o not use water jet or water-based fire extinguishers.	
Special exposure hazards	romptly isolate the scene by removing all persons from the vicinit ere is a fire. No action shall be taken involving any personal risk aining. Move containers from fire area if this can be done without oray to keep fire-exposed containers cool.	or without suitable
Hazardous thermal decomposition products	ecomposition products may include the following materials: arbon dioxide arbon monoxide	

6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up		
Spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation.

Storage

: Store in accordance with local regulations.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits	
Propan-2-ol	ACGIH TLV (United States, 2/2010). STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s). NIOSH REL (United States, 6/2009). STEL: 1225 mg/m³ 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 980 mg/m³ 10 hour(s). TWA: 400 ppm 10 hour(s). TWA: 980 mg/m³ 8 hour(s). TWA: 980 mg/m³ 8 hour(s). TWA: 980 mg/m³ 8 hour(s). TWA: 400 ppm 8 hour(s).	

Canada

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8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
	US ACGIH 2/2010 AB 4/2009 BC 9/2010 ON 7/2010 QC 6/2008	200 200 200 200 400	- 492 - - 983	- - - -	400 400 400 400 500	- 984 - - 1230	- - - -	- - - -	- - - -	- - -	

<u>Mexico</u>

Occupational exposure limits

Ingredient	Exposure limits
Propan-2-ol	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 1225 mg/m ³ 15 minute(s). LMPE-CT: 500 ppm 15 minute(s). LMPE-PPT: 980 mg/m ³ 8 hour(s). LMPE-PPT: 400 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering measures	: No special ventilation requirements.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory	 Not required for normal use of the pen/marker. Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.
Hands	 Not required for normal use of the pen/marker. Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).
Eyes	 Not required for normal use of the pen/marker. Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
Skin	 Not required for normal use of the pen/marker. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state	: Liquid. [in cylindrical marker]
Flash point	: Closed cup: 12°C (53.6°F) [Tagliabue.]
Burning time	: Not applicable.
Burning rate	: Not applicable.
Auto-ignition temperature	: 399°C (750.2°F)
Flammable limits	: Lower: 2.5% Upper: 12% (Propan-2-ol)
Color	: White. Yellow. Red. Black. Green. Blue.

9. Physical and chemical properties

-	
Odor	: Alcohol-like.
Taste	: Not available.
Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
рН	: Not available.
Boiling/condensation point	: 82.5°C (180.5°F)
Melting/freezing point	: -88.88°C (-128°F)
Critical temperature	: Not available.
Relative density	: 0.788 (Propan-2-ol)
Vapor pressure	: 4 kPa (30 mm Hg) [20°C]
Vapor density	: 2.07 [Air = 1] (Propan-2-ol)
Volatility	: 73.33% (v/v), 64.59% (w/w)
Odor threshold	: Not available.
Evaporation rate	: 1.7 (Butyl acetate = 1) (Propan-2-ol)
SADT	: Not available.
Viscosity	: Not available.
lonicity (in water)	: Not available.
Dispersibility properties	: Not available.
Solubility	: Not available.
Physical/chemical properties comments	: Not available.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propan-2-ol	LD50 Dermal LD50 Oral		12800 mg/kg 5000 mg/kg	-

Chronic toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Propan-2-ol	Eyes - Severe irritant Skin - Mild irritant Eyes - Moderate irritant Eyes - Moderate irritant	Rabbit Rabbit Rabbit Rabbit	- - -	100 mg 500 mg 24 hours 100 mg 10 mg	- - -

<u>Sensitizer</u>

Skin

Respiratory

Carcinogenicity

- : There is no data available.
- : There is no data available.

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11. Toxicological information

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Propan-2-ol	A4	3	-	-	-	None.

Mutagenicity

There is no data available.

Teratogenicity

There is no data available.

Reproductive toxicity

There is no data available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Propan-2-ol	Acute LC50 1400000 to 1950000 ug/L Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 >1400000 ug/L	Fish - Gambusia affinis - 20 to 30 mm	96 hours

Persistence/degradability

There is no data available.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

DOT/TDG/MXT/IMDG/IATA : Not regulated.

15. Regulatory information

United States	
HCS Classification	: Not regulated.
U.S. Federal regulations	: TSCA 8(a) IUR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Propan-2-ol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Propan-2-ol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Air Act Section	: Not listed

112(b) Hazardous Air Pollutants (HAPs)

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15. Regulatory information

Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Propan-2-ol	67-63-0	60 - 100
Supplier notification	Propan-2-ol	67-63-0	60 - 100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	
Massachusetts	: The following components are listed: Propan-2-ol
New York	: None of the components are listed.
New Jersey	: The following components are listed: Propan-2-ol
Pennsylvania	: The following components are listed: Propan-2-ol
<u>California Prop. 65</u>	
No products were found.	
<u>Canada</u>	
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
<u>Canadian lists</u>	
Canadian NPRI	: The following components are listed: Propan-2-ol
CEPA Toxic substances	: None of the components are listed.
Canada inventory	: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.



Classification



16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material: Health :1Flammability :1Physical hazards :0

Information System (U.S.A.)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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16. Other information

National Fire Protection	: Health :	1	Flammability :	1	Instability :	0	
Association (U.S.A.)							

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History

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