Conforms to ANSI Z400.1-2004 Standard - United States, Canada, Mexico

Date : 08/15/2012
Version : 2.1

Material Safety Data Sheet

Quik Stik® Mini (White)

1. Product and company identification

Product name : Quik Stik® Mini (White)

Material uses : Marking and Identification.

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 paint released by this product. Because of the nature of the finished product i.e. the fact that the paint is in solid form, and given that the paint 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 paint to be minimal and controlled during the normal use of the product. Refer to relevant sections of the MSDS (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 heat, burn or expose it to a source of intense heat unless the product is specifically intended for use on hot surfaces.

Emergency overview

Physical state : Solid in cylindrical form.

Color : White.

Odor : Not available.

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

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs : No known significant effects or critical hazards.

Over-exposure signs/symptoms

2. Hazards identification

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

Name	CAS number	%
Dipropylene glycol methyl ether	34590-94-8	30 - 60
Titanium Dioxide*	13463-67-7	10 - 30
Poly(2-propyl-m-dioxane-4,6-diylene)	63148-65-2	10 - 30
Propanoic acid, 3-ethoxy-, ethyl ester	763-69-9	10 - 30
Poly(oxy-1,2-ethanediyl), alpha,alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy-	9014-85-1	0.1 - 1

Canada

Name	CAS number	%
Dipropylene glycol methyl ether	34590-94-8	30 - 60
Titanium Dioxide	13463-67-7	10 - 30
Propanoic acid, 3-ethoxy-, ethyl ester	763-69-9	10 - 30
Poly(oxy-1,2-ethanediyl), alpha,alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy-	9014-85-1	0.1 - 1

Mexico

					Classification			
Name	CAS number	UN number	%	IDLH	H	F	R	Special
Dipropylene glycol methyl ether	34590-94-8	Not regulated.	30 - 60	600 ppm	1	1	0	-
Titanium Dioxide	13463-67-7	Not regulated.	10 - 30	5000 mg/m³	2	0	0	-
Propanoic acid, 3-ethoxy-, ethyl ester	763-69-9	UN1993	10 - 30	-	1	1	0	-
Poly(oxy-1,2-ethanediyl), alpha,alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy-	9014-85-1	Not regulated.	0.1 - 1	-	1	1	0	-

(*) These ingredients are not expected to be present as unbound, respirable particles during normal use of this product.

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 : Check for and remove any contact lenses. 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 symptoms occur.

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 special protection is required.

Notes to physician : No specific treatment. Treat symptomatically.

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : 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. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Avoid breathing vapor or mist. Use only with adequate ventilation. Store and use away from heat, sparks, open flame or any other ignition source.

Storage : Store in accordance with local regulations.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Dipropylene glycol methyl ether	**ACGIH TLV (United States, 2/2010). Absorbed through skin.** STEL: 909 mg/m³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 606 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s). **NIOSH REL (United States, 6/2009). Absorbed through skin.** STEL: 900 mg/m³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 600 mg/m³ 10 hour(s). TWA: 100 ppm 10 hour(s). **OSHA PEL (United States, 6/2010). Absorbed through skin.** TWA: 600 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s). **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 100 ppm 8 hour(s). TWA: 600 mg/m³ 8 hour(s). STEL: 150 ppm 15 minute(s). STEL: 900 mg/m³ 15 minute(s).
Titanium Dioxide	**OSHA PEL (United States, 6/2010).** TWA: 15 mg/m³ 8 hour(s). Form: Total dust **ACGIH TLV (United States, 2/2010).** TWA: 10 mg/m³ 8 hour(s).

Canada

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**
Dipropylene glycol methyl ether	US ACGIH 2/2010	100	606	-	150	909	-	-	-	-	[1]
	AB 4/2009	100	606	-	150	909	-	-	-	-	[1]
	BC 9/2010	100	-	-	150	-	-	-	-	-	[1]
	ON 7/2010	100	606	-	150	909	-	-	-	-	[1]
	QC 6/2008	100	606	-	150	909	-	-	-	-	[1]
Titanium Dioxide	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
	BC 9/2010	-	3	-	-	-	-	-	-	-	[a]
		-	10	-	-	-	-	-	-	-	[b]
	ON 7/2010	-	10	-	-	-	-	-	-	-	[b]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[b]
Propanoic acid, 3-ethoxy-, ethyl ester	ON 7/2010	50	300	-	-	-	-	-	-	-	

[1]Absorbed through skin. [3]Skin sensitization
Form: [a]Respirable dust [b]Total dust

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Dipropylene glycol methyl ether	**NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.** LMPE-CT: 900 mg/m³ 15 minute(s). LMPE-CT: 150 ppm 15 minute(s). LMPE-PPT: 60 mg/m³ 8 hour(s). LMPE-PPT: 100 ppm 8 hour(s).
Titanium Dioxide	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 20 mg/m³, (as Ti) 15 minute(s). LMPE-PPT: 10 mg/m³, (as Ti) 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 : Use only with adequate ventilation.

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. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Not required for normal use of the pen/marker. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Not required for normal use of the pen/marker. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

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.

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 : Solid in cylindrical form.

Flash point : Closed cup: 61 to 93.3°C (141.8 to 199.9°F) [Pensky-Martens.]

Burning time : Not applicable.

Burning rate : Not applicable.

Auto-ignition temperature : Not available.

Flammable limits : Not available.

Color : White.

Odor : Not available.

Taste : Not available.

Molecular weight : Not applicable.

Molecular formula : Not applicable.

pH : Not available.

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Critical temperature : Not available.

Relative density : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Volatility : Not available.

Odor threshold : Not available.

Evaporation rate : Not available.

SADT : Not available.

Viscosity : Not available.

Ionicity (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, reducing materials, acids and alkalis.

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
Propanoic acid, 3-ethoxy-, ethyl ester	LD50 Oral	Rat	3200 mg/kg	-

Chronic toxicity

There is no data available.

Irritation/Corrosion

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dipropylene glycol methyl ether	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Propanoic acid, 3-ethoxy-, ethyl ester	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitizer

Skin : There is no data available.

Respiratory : There is no data available.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Titanium Dioxide	A4	2B	-	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
Titanium Dioxide	Acute EC50 5.83 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 >10 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours
	Acute LC50 >1000000 ug/L Marine water	Fish - Fundulus heteroclitus	96 hours
Propanoic acid, 3-ethoxy-, ethyl ester	EC50 >480 mg/l	Daphnia	48 hours

Persistence/degradability

There is no data available.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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) PAIR**: Dipropylene glycol methyl ether

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: Dipropylene glycol methyl ether; Titanium Dioxide
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dipropylene glycol methyl ether: Fire hazard, Immediate (acute) health hazard; Titanium Dioxide: Delayed (chronic) health hazard

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

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

State regulations

Massachusetts : The following components are listed: Dipropylene glycol methyl ether; Titanium Dioxide

New York : None of the components are listed.

New Jersey : The following components are listed: Dipropylene glycol methyl ether; Titanium Dioxide

Pennsylvania : The following components are listed: Dipropylene glycol methyl ether; Titanium Dioxide

California Prop. 65

No products were found.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

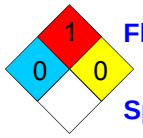
Canada inventory : All components are listed or exempted.

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.

Mexico

Classification :

15. Regulatory information



16. Other information

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

Hazardous Material Information System (U.S.A.) : **Health :** 0 **Flammability :** 1 **Physical hazards :** 0

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.

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

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History

Date of issue mm/dd/yyyy : 08/15/2012

Date of previous issue : 04/15/2012

Version : 2.1

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.