

Date : 10/15/2013

Version : 2

Material Safety Data Sheet

QUIK STIK White; Blue; Black; Purple; Yellow; Red; Green; Orange

1. Product and company identification

Product name	: QUIK STIK White; Blue; Black; Purple; Yellow; Red; Green; Orange
Material uses	: FOR INDUSTRIAL USE ONLY 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	: Yellow./Red./Green./Orange./White./Blue./Black./Purple.
Odor	: Solvent.
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 SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.

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.



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Orange**

2. Hazards identification

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

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.

Medical conditions aggravated by overexposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
2-Propanol, 1-butoxy-	5131-66-8	30 - 60
Titanium Dioxide*	13463-67-7	10 - 30
Dipropylene glycol methyl ether	34590-94-8	5 - 10
Carbon black*	1333-86-4	5 - 10
N-ethyl-o(or p)-toluenesulphonamide	8047-99-2	1 - 5
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 5
Triethanolamine	102-71-6	1 - 5

Canada

Name	CAS number	%
2-Propanol, 1-butoxy-	5131-66-8	30 - 60
Titanium Dioxide	13463-67-7	10 - 30
Dipropylene glycol methyl ether	34590-94-8	5 - 10
Carbon black	1333-86-4	5 - 10
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(1-methylethoxy)propyl]amino]sulfonyl derivs.	81457-65-0	1 - 5
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 5
Triethanolamine	102-71-6	1 - 5

Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
2-Propanol, 1-butoxy-	5131-66-8	Not regulated.	30 - 60	-	2	2	0	-
Titanium Dioxide	13463-67-7	Not regulated.	10 - 30	5000 mg/m³	2	0	0	-
Dipropylene glycol methyl ether	34590-94-8	Not regulated.	5 - 10	600 ppm	1	1	0	-
Carbon black	1333-86-4	Not regulated.	5 - 10	1750 mg/m³	2	1	0	-
N-ethyl-o(or p)-toluenesulphonamide	8047-99-2	Not available.	1 - 5	-	1	0	0	-
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	UN1223	1 - 5	-	1	1	0	-
Triethanolamine	102-71-6	Not regulated.	1 - 5	-	1	1	0	-

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



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3. Composition/information on ingredients

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.

Because this SDS is written for multiple similar products, it shall be understood that all ingredients listed above may not be found in all products.

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 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. |
| <u>Extinguishing media</u> | |
| 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
nitrogen oxides
sulfur oxides
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). |
| <u>Methods for cleaning up</u> | |
| Spill | : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |



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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
Titanium Dioxide	OSHA PEL (United States, 6/2010). TWA: 15 mg/m ³ 8 hour(s). Form: Total dust ACGIH TLV (United States, 2/2010). TWA: 10 mg/m ³ 8 hour(s).
Dipropylene glycol methyl ether	ACGIH TLV (United States, 2/2010). Absorbed through skin. STEL: 909 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 606 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s). NIOSH REL (United States, 6/2009). Absorbed through skin. STEL: 900 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 600 mg/m ³ 10 hour(s). TWA: 100 ppm 10 hour(s). OSHA PEL (United States, 6/2010). Absorbed through skin. TWA: 600 mg/m ³ 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/m ³ 8 hour(s). STEL: 150 ppm 15 minute(s). STEL: 900 mg/m ³ 15 minute(s).
Carbon black	ACGIH TLV (United States, 2/2010). TWA: 3 mg/m ³ 8 hour(s). Form: Inhalable fraction. NIOSH REL (United States, 6/2009). TWA: 3.5 mg/m ³ 10 hour(s). TWA: 0.1 mg of PAHs/cm ³ 10 hour(s). OSHA PEL (United States, 6/2010). TWA: 3.5 mg/m ³ 8 hour(s).
Solvent naphtha (petroleum), medium aliphatic	Manufacturer (United States). TWA: 100 ppm 8 hour(s). Form: All forms.
Triethanolamine	ACGIH TLV (United States, 2/2010). TWA: 5 mg/m ³ 8 hour(s).

Canada



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8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
Titanium Dioxide	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	[3]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[a]
	BC 9/2010	-	3	-	-	-	-	-	-	-	[b]
	ON 7/2010	-	10	-	-	-	-	-	-	-	[b]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[b]
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]
Carbon black	US ACGIH 2/2010	-	3	-	-	-	-	-	-	-	[c]
	AB 4/2009	-	3.5	-	-	-	-	-	-	-	
	BC 9/2010	-	3.5	-	-	-	-	-	-	-	
	ON 7/2010	-	3.5	-	-	-	-	-	-	-	
	QC 6/2008	-	3.5	-	-	-	-	-	-	-	
Triethanolamine	US ACGIH 2/2010	-	5	-	-	-	-	-	-	-	
	AB 4/2009	-	5	-	-	-	-	-	-	-	[3]
	BC 9/2010	-	5	-	-	-	-	-	-	-	
	ON 7/2010	0.5	3.1	-	-	-	-	-	-	-	
	QC 6/2008	-	5	-	-	-	-	-	-	-	[3]

[1] Absorbed through skin. [3] Skin sensitization

Form: [a] Respirable dust [b] Total dust [c] Inhalable fraction.

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Titanium Dioxide	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 20 mg/m ³ , (as Ti) 15 minute(s). LMPE-PPT: 10 mg/m ³ , (as Ti) 8 hour(s).
Dipropylene glycol methyl ether	NOM-010-STPS (Mexico, 9/2000). Absorbed through skin. LMPE-CT: 900 mg/m ³ 15 minute(s). LMPE-CT: 150 ppm 15 minute(s). LMPE-PPT: 60 mg/m ³ 8 hour(s). LMPE-PPT: 100 ppm 8 hour(s).
Carbon black	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 7 mg/m ³ 15 minute(s). Form: smoke LMPE-PPT: 3.5 mg/m ³ 8 hour(s). Form: smoke
Triethanolamine	ACGIH TLV (United States, 2/2010). TWA: 5 mg/m ³ 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



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8. Exposure controls/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: 62°C (143.6°F)
Burning time	: Not available.
Burning rate	: Not available.
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Yellow./Red./Green./Orange./White./Blue./Black./Purple.
Odor	: Solvent.
Taste	: Not available.
Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
pH	: Not applicable.
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	: Partially soluble in the following materials: n-octanol. Very slightly soluble in the following materials: cold water and hot water.



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9. Physical and chemical properties

Partition coefficient (LogKow) : 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 and acids.

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
2-Propanol, 1-butoxy- Carbon black Triethanolamine	LD50 Dermal LD50 Oral LD50 Oral	Rabbit Rat Rat	3100 mg/kg >15400 mg/kg 7.39 g/kg	- - -

Chronic toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Dipropylene glycol methyl ether	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Triethanolamine	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-
	Skin - Severe irritant	Mouse	-	50%	-
	Skin - Mild irritant	Rabbit	-	24 hours 560 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.	-	-
Carbon black	A4	2B	-	+	-	-
Triethanolamine	-	3	-	-	-	-

Mutagenicity

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11. Toxicological information

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 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours
Triethanolamine	Acute LC50 >1000000 ug/L Marine water	Fish - Fundulus heteroclitus	96 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 11800000 ug/L Fresh water	Fish - Pimephales promelas - 30 days - 18.1 mm - 0.083 g	96 hours
	Chronic NOEC 16000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	21 days

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

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG* : Packing group

Exemption to the above classification may apply.

AERG : Not applicable.



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15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : **TSCA 8(a) PAIR**: Dipropylene glycol methyl ether; p-tert-butylphenol
TSCA 8(a) CDR Exempt/Partial exemption: All components are listed or exempted.
TSCA 8(d) H and S data reporting: 1-Propanol, 2-butoxy-
Commerce control list precursor: Triethanolamine
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(1-methylethoxy)propyl]amino]sulfonyl derivs.

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

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

No products were found.

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [3-(1-methylethoxy)propyl]amino]sulfonyl derivs.	81457-65-0	1 - 5
Supplier notification	Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [3-(1-methylethoxy)propyl]amino]sulfonyl derivs.	81457-65-0	1 - 5

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

California Prop. 65

No products were found.



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15. Regulatory information

Canada

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

Canadian lists

Canadian NPRI : The following components are listed: 2-Propanol, 1-butoxy-; Solvent naphtha (petroleum), medium aliphatic; Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(1-methylethoxy)propyl]amino]sulfonyl derivs.

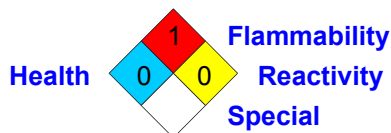
CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

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 :



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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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue mm/dd/yyyy : 10/15/2013

Date of previous issue : 08/15/2012

Version : 2

Revised Section(s) : 1, 15, 16.



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16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

