Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red

LA-CO Industries, Inc.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)
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Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Marking.

1.3. Details of the supplier of the safety data sheet

LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village, IL. 60007-5746
Phone: (847) 956-7600
Fax: (847) 956-9885
E-mail: customer_service@laco.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard

Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Repr. 2	H361
Aquatic Chronic 3	H412

Full text of classification categories and H statements : see section 16

2.2 Label elements

GHS labelling

Hazard pictograms (GHS) :

GHS07 GHS08

Signal word (GHS) : Warning

Hazard statements (GHS) :
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust, fume, vapours
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to Dispose in a safe manner in accordance with local/national regulations

2.3. Other hazards

2.4 Unknown acute toxicity (GHS US)

0.02 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
4.74 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
2.74 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS classification
1-butoxypropan-2-ol	(CAS No) 5131-66-8	30.4 – 31.04 Yellow, Green, Orange 33.44 – 34.14 Blue 30.27 – 30.9 Red	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
(2-Methoxymethylethoxy)-propanol	(CAS No) 34590-94-8	8 Yellow, Green, Orange 8.8 Blue 7.96 Red	Flam. Liq. 4, H227
N-Ethyl O/P Toluene Sulfonamides	(CAS No) 8047-99-2	1.5 Yellow, Green, Orange 3.3 Blue 1.49 Red	Acute Tox. 3 (Dermal), H311
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	(CAS No) 85408-46-4	1.5 – 2 Yellow 0.75 – 1 Green	Aquatic Chronic 2, H411
Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1)	(CAS No) 84961-40-0	2 Orange 0.3 Red	Acute Tox. 4 (Oral), H302
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS No) 41556-26-7	0.35 – 0.43 Yellow, Green, Orange, Red 0.39 – 0.47 Blue	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-tert-butylphenol	(CAS No) 98-54-4	0.16 – 0.4 Yellow, Green, Orange, Red 0.18 – 0.44 Blue	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H335 Aquatic Chronic 2, H411
Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether	(CAS No) 104810-47-1	0.15 – 0.3 Yellow, Green, Orange, Red 0.17 – 0.33 Blue	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-	(CAS No) 104810-48-2	0.15 – 0.3 Yellow, Green, Orange, Red 0.17 – 0.33 Blue	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	(CAS No) 82919-37-7	0.05 – 0.15 Yellow, Green, Orange, Red 0.06 – 0.17 Blue	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Suspected of damaging fertility or the unborn child.

Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible. Combustion generates : Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides. metallic oxides.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.

Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, vapours.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from ignition sources. Keep container closed when not in use. Protect from sunlight.

Incompatible products : Strong oxidizers. Acids.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red	
ACGIH	Not applicable
OSHA	Not applicable

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)	
ACGIH	Not applicable
OSHA	Not applicable

4-tert-butylphenol (98-54-4)	
ACGIH	Not applicable
OSHA	Not applicable

1-butoxypropan-2-ol (5131-66-8)	
ACGIH	Not applicable
OSHA	Not applicable

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
ACGIH	ACGIH TWA (mg/m³)	606 mg/m³
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (mg/m³)	909 mg/m³
ACGIH	ACGIH STEL (ppm)	150 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	600 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (STEL) (mg/m³)	600 mg/m³
Canada (Quebec)	VECD (mg/m³)	909 mg/m³
Canada (Quebec)	VECD (ppm)	150 ppm
Canada (Quebec)	VEMP (mg/m³)	606 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
ACGIH	Not applicable
OSHA	Not applicable

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)	
ACGIH	Not applicable
OSHA	Not applicable

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
ACGIH	Not applicable
OSHA	Not applicable

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)	
ACGIH	Not applicable
OSHA	Not applicable

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) (84961-40-0)	
ACGIH	Not applicable
OSHA	Not applicable

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) (85408-46-4)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves. Use rubber gloves.

Eye protection	:	Chemical goggles or safety glasses.
Skin and body protection	:	Wear suitable protective clothing. Long sleeved protective clothing.
Respiratory protection	:	Where excessive vapour may result, wear approved mask. Use air-purifying respirator equipped with particulate filtering cartridges.
Other information	:	Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	A solid crayon-like marker.
Colour	:	Variable.
Odour	:	Solvent.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	62 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

VOC content	:	46.2 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat. Direct sunlight.

10.5. Incompatible materials
Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products
Carbon dioxide. Carbon monoxide. Nitrogen oxides. metallic oxides. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)	
LD50 oral rat	2250 mg/kg

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)	
LD50 dermal rabbit	1000 mg/kg
ATE CLP (oral)	2250.000 mg/kg bodyweight
ATE CLP (dermal)	1000.000 mg/kg bodyweight

4-tert-butylphenol (98-54-4)	
LD50 oral rat	> 2000 mg/kg No mortality observed
LD50 dermal rabbit	> 16 g/kg No mortality observed
LC50 inhalation rat (mg/l)	5.6 mg/l/4h
ATE CLP (vapours)	5.600 mg/l/4h
ATE CLP (dust,mist)	5.600 mg/l/4h

1-butoxypropan-2-ol (5131-66-8)	
LD50 oral rat	3300 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	> 651 ppm/4h
ATE CLP (oral)	3300.000 mg/kg bodyweight

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 inhalation rat (mg/l)	> 1667 mg/l/4h

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000.000 mg/kg bodyweight

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000.000 mg/kg bodyweight

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 oral rat	2369 (2369 - 3920) mg/kg
ATE CLP (oral)	2369.000 mg/kg bodyweight

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) (84961-40-0)	
LD50 oral rat	1400 mg/kg
ATE CLP (oral)	1400.000 mg/kg bodyweight

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) (85408-46-4)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 9.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms

Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Likely routes of exposure : Skin and eye contact

SECTION 12: Ecological information

12.1 Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

4-tert-butylphenol (98-54-4)	
LC50 fish 1	> 1 mg/l 96 h
EC50 Daphnia 1	4.8 mg/l 48 h

1-butoxypropan-2-ol (5131-66-8)	
LC50 fish 1	> 560 (560 - 1000) mg/l 96 h
EC50 Daphnia 1	> 1000 mg/l 48 h

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LC50 fish 1	> 1000 mg/l Poecilia reticulata
ErC50 (algae)	> 1000 mg/l

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
LC50 fish 1	2.8 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	4 mg/l
ErC50 (algae)	> 9 mg/l
NOEC (chronic)	1 mg/l

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)	
LC50 fish 1	2.8 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	4 mg/l
ErC50 (algae)	> 9 mg/l
NOEC (chronic)	1 mg/l

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 fish 1	0.97 mg/l 96 h
EC50 Daphnia 1	20 mg/l 24 h

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) (84961-40-0)	
EC50 Daphnia 1	> 100 mg/l

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) (85408-46-4)	
LC50 fish 1	1 - 10 mg/l 96 h Brachydanio rerio

12.2. Persistence and degradability

Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red	
Persistence and degradability	May cause long-term adverse effects in the environment.

4-tert-butylphenol (98-54-4)	
Biodegradation	60 % 28 d

1-butoxypropan-2-ol (5131-66-8)	
Persistence and degradability	Readily biodegradable.

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	24 %

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	24 %

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Biodegradation	38 % 28 d

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

4-tert-butylphenol (98-54-4)	
Log Pow	3

1-butoxypropan-2-ol (5131-66-8)	
Log Pow	1.2

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
Bioconcentration factor (BCF REACH)	34

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)	
Bioconcentration factor (BCF REACH)	34

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Log Pow	0.37

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)	
Log Pow	2.37

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT and TDG

Not considered a dangerous good for transport regulations

Proper Shipping Name (ADR) : Not applicable

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

4-tert-butylphenol (98-54-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-butoxypropan-2-ol (5131-66-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether **(104810-47-1)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- **(104810-48-2)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) **(84961-40-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) **(85408-46-4)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)
Listed on the Canadian DSL (Domestic Substances List) inventory.

4-tert-butylphenol (98-54-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.

1-butoxypropan-2-ol (5131-66-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

(2-Methoxymethylethoxy)-propanol (34590-94-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether **(104810-47-1)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- **(104810-48-2)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) **(84961-40-0)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) **(85408-46-4)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

4-tert-butylphenol (98-54-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1-butoxypropan-2-ol (5131-66-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

(2-Methoxymethylethoxy)-propanol (34590-94-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether **(104810-47-1)**
Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- **(104810-48-2)**
Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-)(1:1) **(84961-40-0)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-) **(85408-46-4)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red
All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed in the Toxic Substances Control Act (TSCA).
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

15.3. US State regulations

(2-Methoxymethylethoxy)-propanol (34590-94-8)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Right to Know List of Hazardous Chemicals
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Indication of changes : Original Document. Added. Product.

Data sources : ACGIH 2000.

Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html.

ESIS (European chemincal Substances Information System; accessed at: http://esis.jrc.ec.europa.eu/index.php?PGM=cla.

European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Abbreviations and acronyms : ACGIH (American Conference of Governement Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population.

OSHA: Occupational Safety & Health Administration.

PBT: Persistent, Bioaccumulative, Toxic.

STEL: Short Term Exposure Limits.

TSCA: Toxic Substances Control Act.

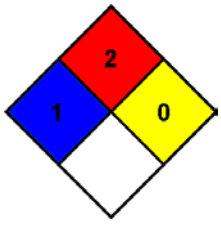
TWA: Time Weight Average.

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



Full text of H-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. 4	Flammable liquids, Category 4

Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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LACO NA GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product