

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/02/2015

Revision date: 21/07/2015

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

##### 1.2.1. Relevant identified uses

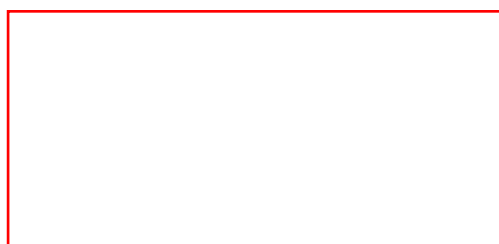
Main use category : Professional use  
Use of the substance/mixture : Marking.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.  
Parc Industriel de la Plaine de  
l'Ain - Allée des Combes.  
01150.BLYES.France.  
Phone: +33 (0)4 74 46 23 23  
Fax: +33 (0)4 74 46 23 29  
E-mail: info@eu.laco.com  
Web: http://www.markal.com



#### 1.4. Emergency telephone number

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

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giflinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166

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LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Warning

Hazard statements (CLP) :

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 (CLP) :

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 should 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

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P362+P364 - Take off contaminated clothing and wash it 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

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Comments

: Only component with health hazards above the applicable thresholds and/or Exposure Limit values are shown.

Exact concentrations are withheld as trade secret.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-butoxypropan-2-ol	(CAS No) 5131-66-8 (EC no) 225-878-4 (EC index no) 603-052-00-8	30 – 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319
titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	5 – 20	Not classified
(2-Methoxymethylethoxy)-propanol	(CAS No) 34590-94-8 (EC no) 252-104-2	5 – 10	Not classified
N-Ethyl O/P Toluene Sulfonamides	(CAS No) 8047-99-2 (EC no) 232-465-2	1 – 5	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 (EC no) 287-007-4	0 - 2	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 (EC no) 284-628-2	0 – 2	Acute Tox. 4 (Oral), H302
Triethanolamine	(CAS No) 102-71-6 (EC no) 203-049-8	0 - 1.5	Not classified
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 1	Not classified
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS No) 41556-26-7 (EC no) 255-437-1	0.1 – 0.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-tert-butylphenol	(CAS No) 98-54-4 (EC no) 202-679-0	0.1 – 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f 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	0.1 – 0.5	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	0.1 – 0.5	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	0 – 1	Not classified
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidyl) ester	(CAS No) 82919-37-7 (EC no) 280-060-4	0.01 – 0.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373

Full text of R- and 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.

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### 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, CO<sub>2</sub>). Nitrogen oxides. Sulphur oxides. metallic oxides.  
Explosion hazard : Product is not explosive.

### 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. EN469.

## 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

Aluminum oxide (1344-28-1)		
Austria	MAK (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) 5 mg/m <sup>3</sup> (alveolengängiger Anteil)

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<b>Aluminum oxide (1344-28-1)</b>		
Austria	MAK Short time value (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m <sup>3</sup> (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Belgium	Remark (BE)	(oxyde d') (en Al)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total) 2 mg/m <sup>3</sup> (respirabel)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total) 4 mg/m <sup>3</sup> (respirabel)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
France	Note (FR)	(respirable aerosol)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	Remark (TRGS 900)	(gemessen als alveolengängiger Staubanteil)
Hungary	AK-érték	6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
Lithuania	IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> (dymy, pyl calkowity) 1.2 mg/m <sup>3</sup> (dymy, pyl respirabilny)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate¾ná frakcia)
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (inhalable aerosol) 2 mg/m <sup>3</sup> (respirable aerosol)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable aerosol) 4 mg/m <sup>3</sup> (respirable aerosol)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Norway	Merknader (NO)	1)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(respirable aerosol)
<b>Aluminum hydroxide (21645-51-2)</b>		
Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
Austria	MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> dymy, pyl calkowity 1.2 mg/m <sup>3</sup> dymy, pyl respirabilny
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate¾ná frakcia)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängige Fraktion)
<b>4-tert-butylphenol (98-54-4)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0.16 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	0.16 ppm
Germany	TRGS 903 (BGW)	2 mg/l
Germany	Remark (TRGS 903)	PTBP (Urin; Expositionsende bzw. Schichtende)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	0.05 ppm 2 ppm (p-terc-Butylfenol ptBF)
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>

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<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Spain	VLA-ED (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Anmärkning (SE)	H
<b>Triethanolamine (102-71-6)</b>		
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	6.2 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	1 ppm
Finland	HTP-arvo (8h) (ppm)	5 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0.8 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	1.6 ppm
Sweden	Anmärkning (SE)	(H)
<b>Diethanolamine (111-42-2)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0.92 ppm
Finland	Huomautus (FI)	iho
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Ireland	Notes (IE)	(Inhalable Fraction and Vapour)
Spain	Notes	vía dérmica,f
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	13 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	3 ppm
United Kingdom	Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
<b>titanium dioxide (13463-67-7)</b>		
Belgium	Remark (BE)	(dioxyde de)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	12 mg/m <sup>3</sup>
France	Note (FR)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	Notes	inhalable aerosol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Sweden	Anmärkning (SE)	total dust, 1
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol
Switzerland	Remark (CH)	(respirable aerosol)

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### 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. EN 374.
Eye protection	: Chemical goggles or safety glasses. EN 166.
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. EN 12083.
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
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 %
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## 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
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# Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red

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<b>Aluminum oxide (1344-28-1)</b>	
LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	7.6 mg/l/4h
ATE CLP (vapours)	7.600 mg/l/4h
ATE CLP (dust,mist)	7.600 mg/l/4h
<b>N-Ethyl O/P Toluene Sulfonamides (8047-99-2)</b>	
LD50 oral rat	2250 mg/kg
LD50 dermal rabbit	1000 mg/kg
ATE CLP (oral)	2250.000 mg/kg bodyweight
ATE CLP (dermal)	1000.000 mg/kg bodyweight
<b>4-tert-butylphenol (98-54-4)</b>	
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
<b>1-butoxypropan-2-ol (5131-66-8)</b>	
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
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 inhalation rat (mg/l)	> 1667 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 1667 mg/l/4h
<b>Triethanolamine (102-71-6)</b>	
LD50 oral rat	6400 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	6400.000 mg/kg bodyweight
<b>Diethanolamine (111-42-2)</b>	
LD50 oral rat	1100 mg/kg
ATE CLP (oral)	1100.000 mg/kg bodyweight
<b>Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether (104810-47-1)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000.000 mg/kg bodyweight
<b>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)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000.000 mg/kg bodyweight
<b>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)</b>	
LD50 oral rat	2369 (2369 - 3920) mg/kg
ATE CLP (oral)	2369.000 mg/kg bodyweight
<b>Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)</b>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
<b>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)</b>	
LD50 oral rat	1400 mg/kg
ATE CLP (oral)	1400.000 mg/kg bodyweight
<b>titanium dioxide (13463-67-7)</b>	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h
<b>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)</b>	
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.



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<b>Respiratory or skin sensitisation</b>	: May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified.

<b>titanium dioxide (13463-67-7)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat

**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

<b>Diethanolamine (111-42-2)</b>	
LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
LOAEL (dermal, rat/rabbit, 90 days)	mg/kg bodyweight/day

**Aspiration hazard** : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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

<b>Aluminum oxide (1344-28-1)</b>	
EC50 Daphnia 1	> 1470 mg/l
NOEC (acute)	> 50 mg/l

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

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

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

<b>Triethanolamine (102-71-6)</b>	
LC50 fish 1	11800 mg/l

<b>Diethanolamine (111-42-2)</b>	
LC50 fish 1	1460 mg/l 96 h
EC50 Daphnia 1	30.1 mg/l 48 h
ErC50 (algae)	2.2 mg/l 96 h

<b>Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether (104810-47-1)</b>	
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

<b>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)</b>	
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

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

<b>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)</b>	
EC50 Daphnia 1	> 100 mg/l

<b>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)</b>	
LC50 fish 1	1 - 10 mg/l 96 h Brachydanio rerio

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### 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.
Diethanolamine (111-42-2)	
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
Triethanolamine (102-71-6)	
Log Pow	-1.75
Diethanolamine (111-42-2)	
Log Pow	-1.71
Bioaccumulative potential	Not expected to bioaccumulate.
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. Results of PBT and vPvB assessment

Quik Stik® TWIST PAINT MARKER Yellow, Green, Blue, Orange, Red	
PBT: not yet assessed	
vPvB: not yet assessed	

### 12.6. 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.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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H code : H10 - 'Toxic for reproduction': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenital malformations or increase their incidence.  
H13 - 'Sensitizing': substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a reaction of hypersensitization such that on further exposure to the substance or preparation, characteristic adverse effects are produced.  
H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.  
H14 - 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not considered a dangerous good for transport regulations

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) :

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 46.2 %

##### 15.1.2. National regulations

###### Germany

Water hazard class (WGK) : 2 - hazard to waters

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:

Original Document. Added. Product.

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate

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	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
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical 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>.

Other information : None.

Full text of R-, H- and EUH-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. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
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
R21	Harmful in contact with skin
R22	Harmful if swallowed
R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Expert judgment
Repr. 2	H361	Expert judgment
Aquatic Chronic 3	H412	Calculation method

LA-CO EU CLP SDS

**SDS Prepared by:** The Redstone Group, LLC  
6077 Frantz Rd.  
Suite 206  
Dublin, OH USA 43016  
T 614-923-7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

*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*

# Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/02/2015

Revision date: 21/07/2016

Supersedes: 12/02/2016

Version: 3

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Marking

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.  
Parc Industriel de la Plaine de  
l'Ain - Allée des Combes.  
01150.BLYES.France.  
Phone: +33 (0)4 74 46 23 23  
Fax: +33 (0)4 74 46 23 29  
E-mail: info@eu.laco.com  
Web: http://www.markal.com

#### 1.4. Emergency telephone number

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

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99

# Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green

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ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Repr. 2 H361

Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazardous ingredients

: 4-tert-butylphenol

Hazard statements (CLP)

: H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (CLP)

: P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective gloves, protective clothing  
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  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse

# Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green

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according to Regulation (EU) 2015/830

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

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-butoxypropan-2-ol	(CAS No) 5131-66-8 (EC no) 225-878-4 (EC index no) 603-052-00-8	30 – 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Formaldehyde-benzoguanamine resin	(CAS No) 53570-86-8 (EC no) polymer	0 – 35	Not classified
(2-Methoxymethylethoxy)-propanol	(CAS No) 34590-94-8 (EC no) 252-104-2	5 – 10	Not classified
N-Ethyl O/P Toluene Sulfonamides	(CAS No) 8047-99-2 (EC no) 232-465-2	1 – 5	Acute Tox. 3 (Dermal), H311
Butoxy-1-propanol	(CAS No) 15821-83-7	0.5 – 2	Flam. Liq. 3, H226
Triethanolamine	(CAS No) 102-71-6 (EC no) 203-049-8	0 – 2	Not classified
4-tert-butylphenol	(CAS No) 98-54-4 (EC no) 202-679-0	0 – 2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f STOT SE 3, H335 Aquatic Chronic 2, H411
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 2	Not classified
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	0 – 0.5	Not classified
Diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373

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 you feel unwell, seek medical advice (show the label where possible).
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 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.
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.



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### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible. Combustion generates : Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulphur oxides. metallic oxides.
- Explosion hazard : Product is not explosive.

### 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. EN469.

## 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.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 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

4-tert-butylphenol (98-54-4)		
Austria	MAK (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (H,Sh)
Austria	MAK (ppm)	0.08 ppm (H,Sh)
Austria	MAK Short time value (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> max. 2x30 min./Schicht, (H,Sh)
Austria	MAK Short time value (ppm)	0.4 ppm max. 2x30 min./Schicht, (H,Sh)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	0.08 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0.16 ppm
Denmark	Anmærkninger (DK)	H
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.08 ppm

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<b>4-tert-butylphenol (98-54-4)</b>		
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	0.16 ppm
Germany	Remark (TRGS 900)	H,Sh
Germany	TRGS 903 (BGW)	2 mg/l
Germany	Remark (TRGS 903)	PTBP (Urin; Expositionsende bzw. Schichtende)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	0.05 ppm 2 ppm (p-terc-Butylfenol ptBF)
Switzerland	VME (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Switzerland	VME (ppm)	0.08 ppm 2 ppm ([Butoxyessigsäure1] (urina; )
Switzerland	VLE (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	0.16 ppm
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Spain	VLA-ED (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Anmärkning (SE)	H
<b>Triethanolamine (102-71-6)</b>		
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	6.2 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	1 ppm
Finland	HTP-arvo (8h) (ppm)	5 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0.8 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	1.6 ppm
Sweden	Anmärkning (SE)	(H)
<b>Diethanolamine (111-42-2)</b>		
Austria	MAK (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (H,Sh)
Austria	MAK (ppm)	0.46 ppm (H,Sh)
Austria	MAK Short time value (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H,Sh)
Austria	MAK Short time value (ppm)	0.92 ppm max. 4x15 min./Schicht, (H,Sh)
Belgium	Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	0.46 ppm
Belgium	Remark (BE)	D
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	1.16 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	2.32 ppm
Czech Republic	Remark (CZ)	I,P
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

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<b>Diethanolamine (111-42-2)</b>		
Denmark	Grænseværdie (langvarig) (ppm)	0.46 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0.92 ppm
Denmark	Anmærkninger (DK)	H
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	0.46 ppm
Finland	Huomautus (FI)	iho
France	VME (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
France	VME (ppm)	3 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Ireland	Notes (IE)	(Inhalable Fraction and Vapour)
Lithuania	IPRV (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	3 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	6 ppm
Lithuania	Remark (LT)	O
Poland	NDS (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	0.46 ppm
Spain	Notes	vía dérmica,f
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	3 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	6 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	13 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	3 ppm
United Kingdom	Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
Norway	Grænseverdier (AN) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Norway	Grænseverdier (AN) (ppm)	3 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Switzerland	VLE (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(inhalable aerosol)
<b>Aluminum oxide (1344-28-1)</b>		
Austria	MAK (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) 5 mg/m <sup>3</sup> (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m <sup>3</sup> (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Belgium	Remark (BE)	(oxyde d') (en Al)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total) 2 mg/m <sup>3</sup> (respirabel)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total) 4 mg/m <sup>3</sup> (respirabel)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
France	Note (FR)	(respirable aerosol)

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Aluminum oxide (1344-28-1)		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	Remark (TRGS 900)	(gemessen als alveolengängiger Staubanteil)
Hungary	AK-érték	6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
Lithuania	IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> (dymy, pyl calkowity) 1.2 mg/m <sup>3</sup> (dymy, pyl respirabilny)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate¾ná frakcia)
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (inhalable aerosol) 2 mg/m <sup>3</sup> (respirable aerosol)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable aerosol) 4 mg/m <sup>3</sup> (respirable aerosol)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Norway	Merknader (NO)	1)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(respirable aerosol)
Australia	TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (respirable dust) 10 mg/m <sup>3</sup> (total inhalable dust)
Aluminum hydroxide (21645-51-2)		
Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
Austria	MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Lithuania	IPRV (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Lithuania	Remark (LT)	F
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> dymy, pyl calkowity 1.2 mg/m <sup>3</sup> dymy, pyl respirabilny
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate¾ná frakcia)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängige Fraktion)

### 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. EN 374

Eye protection:

Chemical goggles or safety glasses. EN 166

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. EN 12083

Other information : Do not eat, drink or smoke when using this product.

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### 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 (butylacetate=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
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	: 48.87 %
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### 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
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#### N-Ethyl O/P Toluene Sulfonamides (8047-99-2)

LD50 oral rat	2250 mg/kg
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

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4-tert-butylphenol (98-54-4)	
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

Butoxy-1-propanol (15821-83-7)	
LD50 oral rat	5009 mg/kg
ATE CLP (oral)	5009.000 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
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 1667 mg/l/4h

Triethanolamine (102-71-6)	
LD50 oral rat	6400 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	6400.000 mg/kg bodyweight

Diethanolamine (111-42-2)	
LD50 oral rat	1100 mg/kg
ATE CLP (oral)	1100.000 mg/kg bodyweight

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	7.6 mg/l/4h
ATE CLP (vapours)	7.600 mg/l/4h
ATE CLP (dust,mist)	7.600 mg/l/4h

<b>Skin corrosion/irritation</b>	: Causes skin irritation.
<b>Additional information</b>	: Causes skin irritation
<b>Serious eye damage/irritation</b>	: Causes serious eye irritation.
<b>Respiratory or skin sensitisation</b>	: Not classified
<b>Germ cell mutagenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified.
<b>Reproductive toxicity</b>	: Suspected of damaging fertility or the unborn child.
<b>Specific target organ toxicity (single exposure)</b>	: Not classified
<b>Specific target organ toxicity (repeated exposure)</b>	: Not classified

Diethanolamine (111-42-2)	
LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
LOAEL (dermal, rat/rabbit, 90 days)	mg/kg bodyweight/day

**Acute toxicity** : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No additional information available.

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

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<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 (algae)	> 1000 mg/l
<b>Triethanolamine (102-71-6)</b>	
LC50 fish 1	11800 mg/l
<b>Diethanolamine (111-42-2)</b>	
LC50 fish 1	1460 mg/l 96 h
EC50 <i>Daphnia</i> 1	30.1 mg/l 48 h
ErC50 (algae)	2.2 mg/l 96 h
<b>Aluminum oxide (1344-28-1)</b>	
EC50 <i>Daphnia</i> 1	1470 mg/l
NOEC (acute)	50 mg/l

### 12.2. Persistence and degradability

<b>Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green</b>	
Persistence and degradability	Not established.
<b>4-tert-butylphenol (98-54-4)</b>	
Biodegradation	60 % 28 d
<b>1-butoxypropan-2-ol (5131-66-8)</b>	
Persistence and degradability	Readily biodegradable.
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
Persistence and degradability	Readily biodegradable.
<b>Diethanolamine (111-42-2)</b>	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green</b>	
Bioaccumulative potential	Not established.
<b>4-tert-butylphenol (98-54-4)</b>	
Log Pow	3
<b>1-butoxypropan-2-ol (5131-66-8)</b>	
Log Pow	1.2
<b>Triethanolamine (102-71-6)</b>	
Log Pow	-1.75
<b>Diethanolamine (111-42-2)</b>	
Log Pow	-1.71
Bioaccumulative potential	Not expected to bioaccumulate.

### 12.4. Mobility in soil

<b>Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green</b>	
Ecology - soil	No additional information available.

### 12.5. Results of PBT and vPvB assessment

<b>Quik Stik® TWIST PAINT MARKER White, Fluorescent Yellow, Fluorescent Green</b>	
PBT: not yet assessed	
vPvB: not yet assessed	

### 12.6. Other adverse effects

Additional information : 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.  
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used

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HP Code : H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation  
H10 - 'Toxic for reproduction': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenital malformations or increase their incidence

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : Not regulated.  
UN-No. (IMDG) : Not regulated.  
UN-No. (IATA) : Not regulated.  
UN-No. (ADN) : Not regulated.  
UN-No. (RID) : Not regulated.

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.  
Proper Shipping Name (IMDG) : Not regulated.  
Proper Shipping Name (IATA) : Not regulated.  
Proper Shipping Name (ADN) : Not regulated.  
Proper Shipping Name (RID) : Not regulated.

#### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not regulated.

#### **IMDG**

Transport hazard class(es) (IMDG) : Not regulated.

#### **IATA**

Transport hazard class(es) (IATA) : Not regulated.

#### **ADN**

Transport hazard class(es) (ADN) : Not regulated.

#### **RID**

Transport hazard class(es) (RID) : Not regulated.

#### 14.4. Packing group

Packing group (ADR) : Not regulated.  
Packing group (IMDG) : Not regulated.  
Packing group (IATA) : Not regulated.  
Packing group (ADN) : Not regulated.  
Packing group (RID) : Not regulated.

#### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

Not regulated.

##### - Transport by sea

Not regulated.

##### - Air transport

Not regulated.



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### - Inland waterway transport

Not regulated.

### - Rail transport

Not regulated.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 48.87 %

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : N-Ethyl O/P Toluene Sulfonamides is listed

SZW-lijst van mutagene stoffen : N-Ethyl O/P Toluene Sulfonamides is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : 4-tert-butylphenol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

Added. Product.

Abbreviations and acronyms:

	ACGIH (American Conference of Government 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.

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	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.  
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>.

Other information : None.

### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361	Expert judgment

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*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*