15830 REDLAND ROAD PO BOX 5507 ROCKVILLE, MD 20855 (30.1) 948-8100

Customer Date

120365 12/10/18

SOLD TO GILLESPIE PRECAST LLC ATTN: ACCTS PAYABLE DEPT. PO BOX 450 CHESTERTOWN, MD 21620

SHIP TO GILLESPIE PRECAST LLC 9466 BEACH HIGHWAY GREENWOOD, DE 19950

Dear Customer,

Enclosed you will find Safety Data Sheets 'SDS' for products you purchased. These SDS sheets are being provided to you in order to meet our obligation under Federal and State laws. Below are the products you purchased corresponding to the enclosed SDS sheets.

DELIVERY

DATE INVOICE ITEM NUMBER

DESCRIPTION

SDS#

331903 MK96820 12/10/18

MARKAL WHITE VALVE ACTION

You may have an obligation to inform and train your employees about hazardous materials in their workplace. These SDS Sheets may may help you inform your employees about the products listed above.

Please note: The SDS Sheets are copies of what has been provided to us by the manufacturers. Accordingly, we believe the information is reliable, but we do not represent or guarantee that they are complete or accurate.

GP - Plant 3

" White paint stick
marker"

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR) Date of issue: 04/16/2015

Revision date: 11/06/2015 Supersedes: 10/29/2015 Version: 1.2

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

**Product identifier** 

LA-CO Industries, Inc.

Product form

Article

Trade name

: Valve Action® Paint Markers, CERTIFIED Valve Action® Paint Markers

Synonyms

Valve Action® Paint Marker White, Yellow, Black, Blue, Green, Aluminum, Purple, Light Blue,

Light Green, Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink,

Invisible UV, Red, Orange, Pink, Brown, Gold

CERTIFIED Valve Action® Paint Marker White, Yellow, Red, Black

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

Use of the substance/mixture

: Marking.

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 22 HERAIDS REGISTERNIES

Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard

Not classified

2.2 Label elements

**GHS-US labelling** 

No labelling applicable

- Other hazards
- Unknown acute toxicity (GHS US)
- 0.28 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
- 0.28 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
- 0.28 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### SECTION 3: Composition/information on ingredients

Substance

Not applicable

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

#### Mixture

Name	Product Identifier	* (w/w)	GHS-US classification
1-Methoxy-2-propanol	(CAS No) 107-98-2	47.05 White 53.32 Yellow 56.66 Red 53.03 Black, CERTIFIED Black 55.56 Blue 56.4 Green 53.86 Orange 77.11 Aluminum 50.88 Purple 47.11 Pink 47.57 Light Blue 47.1 Light Green 56.53 Brown 71.2 Gold 42.53 Fluorescent Yellow, Fluorescent Orange 43.05 Fluorescent Pink 50 Invisible UV 48.35 CERTIFIED White 53.71 CERTIFIED Yellow	Flam. Liq. 3, H226 STOT SE 3, H336
ethanol	(CAS No) 64-17-5	56.8 CERTIFIED Red  13.07 White, CERTIFIED White 15.49 Yellow, CERTIFIED Yellow 13.47 Red, CERTIFIED Red 19.8 Black, CERTIFIED Black 14.18 Blue 12.89 Green 13.18 Orange, Brown 16.3 Purple 12.68 Pink 12.64 Light Blue 12.61 Light Green 8.04 Fluorescent Yellow, Fluorescent Orange	Flam. Liq. 2, H225
-methoxy-1-methylethyl acetate	(CAS No) 108-65-6	6.8 Fluorescent Green  0.3 – 0.6 White, CERTIFIED White  0.36 – 0.73 Yellow, CERTIFIED Yellow  0.47 – 0.94 Red, CERTIFIED Red  0.55 – 1.1 Black, CERTIFIED Black  0.76 – 1.52 Blue  0.74 – 1.48 Green  0.86 – 1.72 Orange  0.05 – 0.1 Purple  0.4 – 0.8 Pink  0.42 – 0.85 Light Blue  0.48 – 0.96 Light Green  0.6 – 1.21 Brown  0.97 – 1.93 Gold  0.21 – 0.41 Fluorescent Yellow, Fluorescent Orange, Fluorescent Pink  0.22 – 0.45 Fluorescent Green	Flam. Liq. 3, H226
-[[4-(aminocarbonyl)phenyl]azo]-N-(2- thoxyphenyl)-3-hydroxynaphthalene-2- arboxamide, C.I. Pigment Red 170 naphthol <1%)	(CAS No) 2786-78-7	3.64 Red, CERTIFIED Red 0.89 Pink 1.82 Brown 1.22 Gold	Skin Sens. 1, H317
sopropanol	(CAS No) 67-63-0	2.31 White, CERTIFIED White 2.73 Yellow, CERTIFIED Yellow 2.38 Red, CERTIFIED Red 3.49 Black, CERTIFIED Black 2.5 Blue 2.28 Green 2.33 Orange Brown 2.38 Purple 2.24 Pink 2.23 Light Blue, Light Green 1.42 Fluorescent Yellow, Fluorescent Orange 1.2 Fluorescent Green 1.49 Fluorescent Pink 0.54 Invisible UV	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Safety Data Sheet

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

Name	Product Identifier	% (w/w)	GHS-US classification
Ethyl acetate	(CAS No) 141-78-6	0.76 White, CERTIFIED White 0.91 Yellow, Red, CERTIFIED Yellow CERTIFIED Red 0.93 Black, CERTIFIED Black 0.83 Blue 0.87 Green 0.89 Orange, Brown 0.79 Aluminum 1.1 Purple 0.73 Pink, Light Blue, Light Green 0.64 Gold 0.65 Fluorescent Yellow, Fluorescent Orange, Fluorescent Pink 0.7 Fluorescent Green 2.22 Invisible UV	Flam. Liq. 2, H225 Eye Intit. 2A, H319 STOT SE 3, H336
Carbon black	(CAS No) 1333-86-4	1.84 Black, CERTIFIED Black	Carc. 2, H351
4-Methyl-7-diethylaminocoumarin	(CAS No) 91-44-1	1.43 Invisible UV	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Imit. 2, H315 Eye Imit. 2A, H319
propyl acetate	(CAS No) 109-60-4	0.77 White. Orange, Brown, CERTIFIED White 0.91 Yellow, CERTIFIED Yellow 0.79 Red, CERTIFIED Red 1.16 Black, CERTIFIED Black 0.83 Blue 0.76 Green 0.96 Purple 0.75 Pink 0.74 Light Blue, Light Green 0.47 Fluorescent Yellow, Fluorescent Orange 0.4 Fluorescent Green 0.48 Invisible UV	Flam. Liq. 2, H225 Eye Intt. 2A, H319 STOT SE 3, H336

Full text of H-statements: see section 16

### SETTEM SELECTION TO STREET AND SECURITY

First-aid measures general

4.1. Description of first aid measures

: Never give anything by mouth to an unconscious person. Get medical advice/attention if you

feel unwell.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : May cause moderate irritation.

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

Treat symptomatically.

#### SECTION 5: Firefighting measures

**5.1.** Extinguishing media Suitable extinguishing media

: Carbon dioxide. Dry chemical. Inert gas. Foam. Water spray. Water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes.

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. Eliminate all ignition sources if safe to do so.

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Protection during firefighting

 Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

#### SECTION & Additional release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment

: Chemical goggles or safety glasses. Wear suitable gloves.

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Chemical goggles or safety glasses. Wear suitable gloves.

Emergency procedures

: Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Eliminate all ignition sources. Stop the flow of material, if this is without risk.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take

up in non-combustible absorbent material and shove into container for disposal.

#### 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

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use

only outdoors or in a well-ventilated area.

Hygiene measures

: 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 container tightly closed. Keep away from open flames, hot surfaces and sources of

ignition.

Incompatible products

: Strong oxidizers. : Heat sources.

Heat and ignition sources

: Keep away from heat, sparks and flame.

Prohibitions on mixed storage Storage area

Keep away from incompatible materials.
 Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Marking.

## SECTION & Exposure controls/personal protection

#### 8.1. Control parameters

Valve Action® Pal	nt Markers, CERTIFIED Valve Action® Paint Mark	ive
ACGIH	Not applicable	and the state of t
OSHA	Not applicable	AND MARKANIA CONTRACTOR OF THE
1-Methoxy-2-propa	anol (107-98-2)	
ACGIH	ACGIH TWA (mg/m³)	369 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (mg/m³)	553 mg/m³
ACGIH	ACGIH STEL (ppm)	100 ppm

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

ACGIH	Remark (ACGIH)	Eye irr; CNS impair; A4
OSHA	Not applicable	
Canada (Quebec)	VECD (mg/m³)	553 mg/m³
Canada (Quebec)	VECD (ppm)	150 ppm
Canada (Quebec)	VEMP (mg/m³)	369 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm
Ethyl acetate (141-78-6)	The state of the s	
ACGIH	ACGIH TWA (mg/m³)	1440 mg/m³
ACGIH	ACGIH TWA (ppm)	400 ppm
ACGIH	Remark (ACGIH)	URT & eye irr
OSHA	OSHA PEL (TWA) (mg/m³)	1400 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Canada (Quebec)	VEMP (mg/m³)	1440 mg/m³
Canada (Quebec)	VEMP (ppm)	400 ppm
2-methoxy-1-methyleth	yl acetate (108-56-6)	THE AVERTAGE TO SELECT SECTION OF SALE
ACGIH	Not applicable	and the suitable is a shall delice and a suitable analysis for deather. I had not considered a suitable for a
OSHA	Not applicable	
4-[[4-(aminocarbonyl)pl		thalene-2-carboxamide, C.E. Pigment Red 170 (nephthol <1%)
ACGIH	Not applicable	
OSHA	Not applicable	
ethanot (64-17-5)	ACGIH TMA (ma(m3))	
	ACGIH TWA (mg/m³)	1884 mg/m³
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT in
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m³)	1880 mg/m³
Canada (Quebec)	VEMP (ppm)	1000 ppm
Isopropanol (67-63-0)		
ACGIH	ACGIH TWA (mg/m³)	490 mg/m³
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (mg/m³)	960 mg/m³
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m³)	
OSHA		980 mg/m³
	OSHA PEL (TWA) (ppm)	400 ppm
Canada (Quebec) Canada (Quebec)	VECD (mg/m³) VECD (ppm)	1230 mg/m³
Canada (Quebec)	VEMP (mg/m³)	983 mg/m³
Canada (Quebec)	VEMP (ppm)	400 ppm
propyl acetate (109-60-		тео ури
ACGIH	ACGIH TWA (mg/m³)	835 mg/m³
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (mg/m³)	
ACGIH		1040 mg/m³
ACGIH	ACGIH STEL (ppm)	250 ppm
	Remark (ACGIH)	Eye & URT irr

Safety Data Sheet

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

OSHA	OSHA PEL (TWA) (mg/m³)	
		840 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Canada (Quebec)	VECD (mg/m³	1040 mg/m³
Canada (Quebec)	VECD (ppm)	250 ppm
Canada (Quebec)	VEMP (mg/m³	835 mg/m³
Canada (Quebec)	VEMP (ppm)	200 ppm
Carbon black (1333-86-	4)	A STATE OF THE PROPERTY OF THE
ACGIH	ACGIH TWA (mg/m³)	3.5 mg/m³
ACGIH	Remark (ACGIH)	Bronchitis
OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³
Canada (Quebec)	VEMP (mg/m³)	10 mg/m³ (Fibres de carbone et de graphite; Poussière totale) 5 mg/m³ (Fibres de carbone et de graphite; Poussière respirable) 3.5 mg/m³
4-Methyl-7-diethylamin	ocoumarin (91-44-1)	三大学的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
ACGIH	Not applicable	Control of the second of the s
OSHA	Not applicable	

#### **Exposure controls**

Appropriate engineering controls

: Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

None under normal use. It is a good industrial hygiene practice to minimize skin contact. Wear

suitable gloves, rubber.

Eye protection

No special eye protection equipment recommended under normal conditions of use. Eye

protection should only be necessary where liquid could be splashed or sprayed.

Respiratory protection

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

Consumer exposure controls

: Keep out of reach of children.

## SECTION SEPTIMENTAL COMMENT OF THE PROPERTY OF

#### 9.1. Information on basic physical and chemical properties

Physical state

Appearance : Solid marker containing liquid colored paint.

Colour Odour : Salvent.

Odour threshold : No data available : No data available

Relative evaporation rate (butyl acetate=1)

Melting point : No data available Freezing point : No data available

**Boiling** point : 120 °C Flash point : 31 °C Auto-ignition temperature : 287 °C

Decomposition temperature : No data available Flammability (solid, gas) : No data available

Vapour pressure : 11.8

Relative vapour density at 20 °C : No data available

Relative density : 1 - 1.33

Solubility : insoluble in water.

Log Pow : 0.7

Log Kow : No data available Viscosity, kinematic : No data available

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Viscosity, dynamic Explosive properties : No data available : No data available

Oxidising properties **Explosive limits** 

: No data available

: No data available

Other information

VOC content

: 50 - 60 %

#### SECTION OF SECURITY METORS IN THE PARTY OF T

#### Reactivity 10.1.

No dangerous reactions known.

#### 10.2. Chemical stability

Flammable liquid and vapour.

## Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

#### 10.5. Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2).

#### SECTION 11: Textcological information

#### Information on toxicological effects

**Acute toxicity** 

: Not classified

	. Not disselled
1-Methoxy-2-propanol (107-98-2)	
LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (ppm)	> 7000 ppm 6 hr
ATE CLP (oral)	4016.000 mg/kg bodyweight
Ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 18 mg/l/4h
ATE CLP (oral)	5620.000 mg/kg bodyweight
2-methoxy-firmethylethyl acetate (1	08-66-6)
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	4345 ppm 6 h
ATE CLP (oral)	8532.000 mg/kg bodyweight
4-[[4-(aminocarbonyl)phanyl]azo]-N (2786-76-7)	(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carbexamide, C.I. Pigment Red 176 (naphthol <1%)
LD50 oral rat	> 15000 mg/kg
LC50 inhalation rat (mg/l)	> 1580 mg/m³ 4 h
ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	
LC50 inhalation rat (mg/l)	> 20000 mg/kg
LCSU initalation fat (mg/l)	> 20000 mg/kg 133.8 mg/l/4h
ATE CLP (oral)	133.8 mg/l/4h
1 9 /	
ATE CLP (oral)	133.8 mg/l/4h 10470.000 mg/kg bodyweight
ATE CLP (oral) ATE CLP (vapours) ATE CLP (dust,mist) Isopropanot (67-53-0)	133.8 mg/l/4h 10470.000 mg/kg bodyweight 133.800 mg/l/4h
ATE CLP (oral) ATE CLP (vapours) ATE CLP (dust,mist) Isopropanot (67-63-0)	133.8 mg/l/4h 10470.000 mg/kg bodyweight 133.800 mg/l/4h
ATE CLP (oral) ATE CLP (vapours) ATE CLP (dust,mist) Isopropanot (67-63-0) LD50 oral rat LD50 dermal rabbit	133.8 mg/l/4h 10470.000 mg/kg bodyweight 133.800 mg/l/4h 133.800 mg/l/4h
ATE CLP (oral) ATE CLP (vapours) ATE CLP (dust,mist) Isopropanot (67-63-0) LD50 oral rat	133.8 mg/l/4h 10470.000 mg/kg bodyweight 133.800 mg/l/4h 133.800 mg/l/4h 5840 mg/kg

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

propyl acetate (109-80-4)	
LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17800 mg/kg
LC50 inhalation rat (mg/l)	32 mg/l/4h
ATE CLP (oral)	8700.000 mg/kg bodyweight
ATE CLP (vapours)	32.000 mg/l/4h
ATE CLP (dust,mist)	32.000 mg/l/4h
Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m³ 4 h
4-Methyl-7-diethylaminocoumarin (91-44-1)	
LD50 oral rat	> 5000 mg/kg
ATE CLP (dermal)	1100.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Isopropanol (67,4850)	
IARC group	3 - Not classifiable
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
National Toxicology Program (NTP) Status	Not listed in carcinogenicity class
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
otential adverse human health effects and s	symptoms

Potential adverse human health effects and symptoms

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Symptoms/injuries after skin contact : May cause moderate irritation.

## SECTION 2: Beological information

1-Methoxy-2-propanol (107-98-2)	
LC50 fish 1	20800 mg/l
EC50 Daphnia 1	23300 mg/l
ErC50 (algae)	> 1000 mg/l
Ethyl acetats (141-78-6)	<b>医</b> 第一种 医阿拉克氏 医阿拉克氏 医阿拉克氏 医阿拉克氏管 医二氏管 医二氏管 医二氏管 医二氏管 医二氏管 医二氏管 医二氏管 医二
LC50 fish 1	220 mg/l
EC50 Daphnia 1	1200 mg/l
NOEC chronic fish	< 9.35 mg/l
2-methoxy-1-methylethyl acetate (108-	
LC50 fish 1	100 - 180 mg/l
EC50 Daphnia 1	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l
4-[[4-(aminocarbonyl)phonyl]axo] N-(2 (2788-76-7)	ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 178 (naphthet <1%)
LC50 fish 1	> 500 mg/l 96 h
EC50 Daphnia 1	> 110 mg/l 48 h
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l

11/06/2015 EN (English) SDS Ref.: LACO1504023

Safety Data Sheet

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

coording to Canadian Hazardous Products Regul	
Isopropanol (67,480-0)	。在1967年中,1967年中
	10000 mg/l
propyl acetate (198-91-4)	
LC50 fish 1	60 mg/l 96 h
EC50 Daphnia 1	91.5 mg/l 48 h
12.2. Persistence and degradability	
1-Methoxy-2-propanol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d
Ethy scetate (141-78-6)	
Persistence and degradability	Readily biodegradable.
2-methoxy - methylethyl action (108-	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d
4-[4-(aminocartiony/lighterly/]aze]-N-(2	-ethoxyphenyl)-:-hydroxyn aphthalene-2-earboxamide. C.L. Pigment Red 170 (naphthal <1%) (12)
(2105-70-71) 医结果 医多种性原则	是是不可能的。在1880年的特殊的。1981年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年
Persistence and degradability	Net readily biodegradable.
Biodegradation	0 % 28 d
ethanol (64:17-5)	。 第1875年,中国中国中国中国中国大学中国共和国共和国共和国共和国共和国共和国共和国共和国共和国共和国共和国共和国共和国
Biodegradation	> 96 % 28 d
Isoprepanel (67-63-0)	
Persistence and degradability	Readily biodegradable.
POP ( Cap ( 08-02 ) 1966 ( 194	<b>美国基本工作的企业,但是这种国际的基础的基础的发展。这个是是不是一种的企业的。</b>
Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d
Carbon black (1363-96-4)	的对抗,但是是一种,但是是一种的人,但是一种的人,但是一种的人,但是一种的人,也是一种的人,也是一种的人。
Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	
Valvey Grone Pain Markers SERTIS	BU Valvi Actions Paint Vanton (1994) 12 (1994) 15 (1994)
Log Pow	0.7
1-Methoxy-2-prepanel (107-98-2)	
Bioaccumulative potential	Not expected to bioaccumulate.
Ethyl acetate (141-78-8)	
Bioaccumulative potential	Not expected to bioaccumulate.
2-methoxys 1-methylethyl acetate (108-	TO THE PROPERTY OF THE PROPERT
Log Pow	0.43
4-[[4-(aminocarbanyl)phonyl]apol-N-[2	sthoxyshenyl)(3-hydroxynalphthalane-2-carboxemide, Ctl. Pigmont Red (70 (naphthol <176))
BCF fish 1	53 l/kg
Log Pow	1.28
ethanel (64-17-5)	
Bioaccumulative potential	Not expected to bioaccumulate.
(seprepanel (67-63-0)	
Bioaccumulative potential	Not expected to bioaccumulate.
propyl acetate (109-60-4)	
COG I OW	1.23

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

### Safety Data Sheet

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

Sewage disposal recommendations

: Do not dispose of waste into sewer.

Waste disposal recommendations

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

Additional information

: Handle empty containers with care because residual vapours are flammable.

#### SECTION 14: Transport Information

In accordance with DOT and TDG

Transport document description

UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid

filler, and liquid lacquer base), 3, III

UN-No.(DOT)

Proper Shipping Name (DOT)

Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, pollsh, liquid filler, and

liquid lacquer base

Transport hazard class(es) (DOT)

: 3 - Flammable liquid

Packing group (DOT)

: III - Minor Danger

ADR

Transport document description

: UN 1263 PAINT, 3, III, (D/E)

Proper Shipping Name (ADR)

: PAINT

Packing group (ADR)

Transport hazard class(es) (ADR)

: 111 : 3

Transport by sea

UN-No. (IMDG)

: UN 1263

Proper Shipping Name (IMDG)

: PAINT

Transport hazard class(es) (IMDG)

: 3

Packing group (IMDG)

: 111

Air transport

UN-No. (IATA)

: UN 1263

Proper Shipping Name (IATA)

: Paint

Transport hazard class(es) (IATA) Packing group (IATA)

: 3

## Secretary memory

#### 15.1. US Federal regulations

#### 1-Mathoxy-2-propanol (107-98-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Ethyl acetate (141-78-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's List of Lists)

#### 2-methoxy-1-methylethyl acetate (108-65-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 1 [C (naphthol <1%)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes

Fire hazard

#### propyl acetate (109-50-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 4-Methyl-7-diethylaminocoumann (91-44-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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#### 15.2. International regulations

#### CANADA

#### 1-Methoxy-2-prepanel (107-88-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Ethyl acetate (141-78-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 2-methoxy-1-methylethyl acetate (108-65-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

# 4-[[4-(aminocarbomyl)phamyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide; G.L. Pigment Red 170 (naphthol <1%)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### isopropanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### propyl acetate (109-80-4).

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 4-Methyl-7-diethylaminocoumarin (91-44-1)

Listed on the Canadian DSL (Domestic Substances List) inventory

#### 1-Methoxy-2-propanol (107-98-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Ethyl acetate (141-78-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 2-methoxy-1-methylethyl acetate (108-65-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

# 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.L. Figment Red 170 (naphthol <1%)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Carbon black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 4-Methyl-7-diethylaminocoumarin (91-44-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### Valve Action® Paint Markers, CERTIFIED Valve Action® Paint Markers

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

All ingredients are listed in the Toxic Substances Control Act (TSCA).

#### 15.3. US State regulations

Safety Data Sheet

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

Valve Action® Paint Markers, CERTIFIED Valve	Action® Paint Maikers
State or local regulations	The carbon black in this product is bound and is not respirable. California Prop. 65 warnings are not required.

Carbon black (1333-86-4)		CONTRACTOR OF THE SECTION OF THE SEC	Hora VI Chargo and	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

#### 1-Methoxy-2-propanel (107-98-2)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List U.S. New York Right to Know List of Hazardous Chemicals

#### Ethyl acetate (141-78-6)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania List of Hazardous Substances

#### ethanol (64-17-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### Isopropanol (67-63-0)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List

## propyl acetate (109-60-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### Carbon black (1333-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

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Indication of changes

Abbreviations and acronyms

Added, Product

Data sources

: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/quest/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

OSHA 29CFR 1910.1200 Hazard Communication Standard.

TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html. 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.

TWA: Time Weight Average.

TSCA: Toxic Substances Control Act.

Other information

Safety Data Sheet

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NFPA health hazard

: 1 - Exposure could cause imitation but only minor residual

injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated 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. 4 (Dermai)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2A	Senous eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

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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