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All-Weather® Plastic Tag Marker Black**LA-CO Industries, Inc.**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
 according to Canadian Hazardous Products Regulations (HPR)
 Date of issue: 08/08/2011
 Revision date: 10/29/2015
 Supersedes: 03/06/2015
 Version: 2.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
 Trade name : All-Weather® Plastic Tag Marker Black

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

Use of the substance/mixture : Marking.

1.3. Details of the supplier of the safety data sheet

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

**1.4. Emergency telephone number**

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

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification in accordance with the Globally Harmonized Standard

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

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

2.2. Label elements**GHS-US labelling**

Hazard pictograms (GHS-US)



GHS02

GHS07

GHS08

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapour
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H351 - Suspected of causing cancer
 H373 - May cause damage to organs through prolonged or repeated exposure
 H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, open flames, sparks. - No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical, lighting, ventilating equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge

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P260 - Do not breathe mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear eye protection, protective gloves
P302+P352 - If on skin: Wash with plenty of water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
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
P312 - Call a doctor if you feel unwell
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on Ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
Xylene	(CAS No) 1330-20-7	29.97 - 34.25	Flam. Liq. 3, H228 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
4-methylpentan-2-one	(CAS No) 108-10-1	20	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 STOT SE 3, H335
ethylbenzene	(CAS No) 100-41-4	8.56 - 12.84	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Asp. Tox. 1, H304
2-phenoxyethanol	(CAS No) 122-99-6	7.96 - 8	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
C.I. Solvent Black 29	(CAS No) 117527-94-3	7.5	Aquatic Chronic 2, H411
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol]	(CAS No) 54954-83-5	1.7 - 5.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H336 STOT SE 3, H335
Carbon black	(CAS No) 1333-86-4	2.05	Carc. 2, H351
diacetone alcohol	(CAS No) 123-42-2	0.85 - 1.7	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
Naphthalene	(CAS No) 91-20-3	0.02 - 0.17	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS No) 41556-26-7	0.14 - 0.17	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

- | | |
|---------------------------------------|--|
| First-aid measures general | : Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. |
| 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 | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. 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 | : Get medical advice/attention if you feel unwell. |

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

- | | |
|--------------------------------------|--|
| Symptoms/injuries | : Causes damage to organs. Suspected of causing cancer. |
| Symptoms/injuries after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities. |

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 | : Carbon dioxide. Dry chemical. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

- | | |
|------------------|---|
| Fire hazard | : Highly flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |
| Reactivity | : No dangerous reactions known. |

5.3. Advice for firefighters

- | | |
|--------------------------------|---|
| Firefighting instructions | : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do not allow run-off from fire fighting to enter drains or water courses. Exercise caution when fighting any chemical fire. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. |

SECTION 6: Accidental 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 protective clothing and gloves. |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.1.2. For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. |
| Emergency procedures | : Ventilate area. Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|--|
| For containment | : Absorb and/or contain spill with inert material, then place in suitable container. |
| Methods for cleaning up | : Take up in non-combustible absorbent material and shove into container for disposal. |

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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. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid all eye and skin contact and do not breathe vapour and mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions

: Keep in fireproof place. Keep container closed when not in use.

Incompatible products

: Strong oxidizers.

Incompatible materials

: Heat sources. Direct sunlight.

Prohibitions on mixed storage

: Incompatible materials.

Storage area

: Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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ACGIH Not applicable

OSHA Not applicable

4-methylpentan-2-one (108-10-1)

ACGIH ACGIH TWA (mg/m³) 205 mg/m³

ACGIH ACGIH TWA (ppm) 20 ppm

ACGIH ACGIH STEL (mg/m³) 307 mg/m³

ACGIH ACGIH STEL (ppm) 75 ppm

ACGIH Remark (ACGIH) URT irr; dizziness; headache

OSHA OSHA PEL (TWA) (mg/m³) 410 mg/m³

OSHA OSHA PEL (TWA) (ppm) 100 ppm

Canada (Quebec) VECD (mg/m³) 310 mg/m³

Canada (Quebec) VECD (ppm) 75 ppm

Canada (Quebec) VEMP (mg/m³) 205 mg/m³

Canada (Quebec) VEMP (ppm) 50 ppm

diacetone alcohol (123-42-2)

ACGIH ACGIH TWA (mg/m³) 238 mg/m³

ACGIH ACGIH TWA (ppm) 50 ppm

ACGIH Remark (ACGIH) URT & eye irr

OSHA OSHA PEL (TWA) (mg/m³) 240 mg/m³

OSHA OSHA PEL (TWA) (ppm) 50 ppm

Canada (Quebec) VEMP (mg/m³) 238 mg/m³

Canada (Quebec) VEMP (ppm) 50 ppm

Xylene (1330-20-7)

ACGIH ACGIH TWA (mg/m³) 434 mg/m³

ACGIH ACGIH TWA (ppm) 100 ppm

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Xylene (1330-20-7)		
ACGIH	ACGIH STEL (mg/m³)	651 mg/m³
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m³)	651 mg/m³
Canada (Quebec)	VECD (ppm)	150 ppm
Canada (Quebec)	VEMP (mg/m³)	434 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm
ethylbenzene (100-41-4)		
ACGIH	ACGIH TWA (mg/m³)	434 mg/m³
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (mg/m³)	543 mg/m³
ACGIH	ACGIH STEL (ppm)	125 ppm
ACGIH	Remark (ACGIH)	URT irr; kidney dam (nephropathy)
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m³)	543 mg/m³
Canada (Quebec)	VECD (ppm)	125 ppm
Canada (Quebec)	VEMP (mg/m³)	434 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm
2-phenoxyethanol (122-99-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
Carbon black (1333-86-4)		
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
Naphthalene (91-20-3)		
ACGIH	ACGIH TWA (mg/m³)	52 mg/m³
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (mg/m³)	79 mg/m³
ACGIH	ACGIH STEL (ppm)	15 ppm
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye Irr; Skin; A3
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
Canada (Quebec)	VECD (mg/m³)	79 mg/m³
Canada (Quebec)	VECD (ppm)	15 ppm
Canada (Quebec)	VEMP (mg/m³)	52 mg/m³
Canada (Quebec)	VEMP (ppm)	10 ppm
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)		
ACGIH	Not applicable	
OSHA	Not applicable	
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] (54954-83-5)		
ACGIH	Not applicable	
OSHA	Not applicable	

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C.I. Solvent Black 29 (117527-94-3)

ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls	: Avoid creating mist or spray. Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves. Use rubber gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Long sleeved protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.
Environmental exposure controls	: Avoid release to the environment.
Consumer exposure controls	: Keep out of reach of children.
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	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Black.
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	: 117 °C
Flash point	: 14 °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	: < 1
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 85 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Direct sunlight. Heat.

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10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

All-Weather® Plastic Tag Marker Black	
ATE CLP (dust,mist)	2.078 mg/l/4h
4-methylpentan-2-one (108-10-1)	
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	2000 (2000 - 4000) ppm/4h
ATE CLP (gases)	2000.000 ppmv/4h
ATE CLP (dust,mist)	1.500 mg/l/4h
diacetone alcohol (123-42-2)	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	13630 mg/kg
ATE CLP (oral)	4000.000 mg/kg bodyweight
ATE CLP (dermal)	13630.000 mg/kg bodyweight
Xylene (1330-20-7)	
LD50 oral rat	> 3500 mg/kg
ATE CLP (dermal)	1100.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h
ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	17.8 ml/kg
LC50 inhalation rat (ppm)	< 1500 ppm
ATE CLP (oral)	3500.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h
2-phenoxyethanol (122-99-6)	
LD50 oral rat	1850 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 1000 mg/m³
ATE CLP (oral)	1850.000 mg/kg bodyweight
Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m³ 4 h
Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	20 g/kg
LC50 inhalation rat (mg/l)	> 340 mg/m³ 1 hour
ATE CLP (oral)	490.000 mg/kg bodyweight
ATE CLP (dermal)	20000.000 mg/kg bodyweight
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 oral rat	2369 (2369 - 3920) mg/kg
ATE CLP (oral)	2369.000 mg/kg bodyweight
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] (54954-83-5)	
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dermal)	1100.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h
C.I. Solvent Black 29 (117527-94-3)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

4-methylpentan-2-one (108-10-1)	
IARC group	2B - Possibly carcinogenic to humans
Xylene (1330-20-7)	
IARC group	3 - Not classifiable
ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
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
Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.

2-phenoxyethanol (122-99-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	700 mg/kg bodyweight rat
NOAEL (subchronic, oral, animal/female, 90 days)	938.8 mg/kg bodyweight rat
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.
Likely routes of exposure	: Skin and eye contact; Inhalation

SECTION 12: Ecological Information

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

4-methylpentan-2-one (108-10-1)	
LC50 fish 1	> 179 96 h
EC50 Daphnia 1	> 200 48 h
diacetone alcohol (123-42-2)	
LC50 fish 1	420 mg/l 96 h
EC50 Daphnia 1	9000 mg/l 24 h
ethylbenzene (100-41-4)	
LC50 fish 1	5.1 mg/l
EC50 other aquatic organisms 1	7.7 mg/l
NOEC (acute)	3.3 mg/l
2-phenoxyethanol (122-99-6)	
LC50 fish 1	344 mg/l 96 h <i>Pimephales promelas</i>
EC50 Daphnia 1	> 500 mg/l 48 h
LOEC (chronic)	50 mg/l 34 days
NOEC (chronic)	23 mg/l 34 days
Naphthalene (91-20-3)	
LC50 fish 1	> 0.91 (0.91 - 2.82) mg/l <i>Oncorhynchus mykiss</i> (From Koppers SDS)

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Naphthalene (91-20-3)	
EC50 Daphnia 1	>= 1.96 mg/l From Koppers SDS
EC50 other aquatic organisms 1	33 mg/l From Sigma-Aldrich SDS
LC50 fish 2	> 1 (1 - 6.5) mg/l Pimpephales promelas (From Sigma-Aldrich SDS)
LOEC (acute)	3.2 mg/l From Sigma-Aldrich SDS
NOEC (acute)	1.8 mg/l From Sigma-Aldrich SDS
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 fish 1	0.97 mg/l 96 h
EC50 Daphnia 1	20 mg/l 24 h
C.I. Solvent Black 29 (117527-94-3)	
LC50 fish 1	2 mg/l 96 h

12.2. Persistence and degradability

All-Weather® Plastic Tag Marker Black	
Persistence and degradability	May cause long-term adverse effects in the environment.
4-methylpentan-2-one (108-10-1)	
Persistence and degradability	Readily biodegradable.
diacetone alcohol (123-42-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % 14 d
ethylbenzene (100-41-4)	
Persistence and degradability	Not established.
2-phenoxyethanol (122-99-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 90 % 3 days
Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Biodegradation	38 % 28 d
C.I. Solvent Black 29 (117527-94-3)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

4-methylpentan-2-one (108-10-1)	
Log Pow	1.9
diacetone alcohol (123-42-2)	
Log Pow	1.03
Xylene (1330-20-7)	
BCF fish 1	1.3 mg/l
Bioaccumulative potential	Not expected to bioaccumulate.
ethylbenzene (100-41-4)	
Bioaccumulative potential	Not established.
2-phenoxyethanol (122-99-6)	
Bioconcentration factor (BCF REACH)	0.3493 calculated
Log Pow	1.2
Naphthalene (91-20-3)	
BCF fish 1	>= 427 (427 - 1158)
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Log Pow	0.37
C.I. Solvent Black 29 (117527-94-3)	
Log Pow	< 3.7 @ 20 °C

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment methods	: Do not dispose in household garbage.
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.
Ecology - waste materials	: Avoid release to the environment.

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, II
UN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
Transport hazard class(es) (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: II - Medium Danger

ADR

Transport document description	: UN 1263 PAINT, 3, II, (D/E)
Proper Shipping Name (ADR)	: PAINT
Packing group (ADR)	: II
Transport hazard class(es) (ADR)	: 3

Transport by sea

UN-No. (IMDG)	: UN 1263
Proper Shipping Name (IMDG)	: PAINT
Transport hazard class(es) (IMDG)	: 3
Packing group (IMDG)	: II

Air transport

UN-No. (IATA)	: UN 1263
Proper Shipping Name (IATA)	: Paint
Transport hazard class(es) (IATA)	: 3
Packing group (IATA)	: II

SECTION 15: Regulatory information

15.1. US Federal regulations

4-methylpentan-2-one (106-10-1)	
Subject to reporting requirements of United States SARA Section 313	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
diacetone alcohol (123-42-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Xylene (1330-20-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
ethylbenzene (100-41-4)	
Subject to reporting requirements of United States SARA Section 313	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
2-phenoxyethanol (122-99-6)	
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	

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Naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] (54954-83-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
C.I. Solvent Black 29 (117527-94-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

4-methylpentan-2-one (108-10-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
diacetone alcohol (123-42-2)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Xylene (1330-20-7)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
ethylbenzene (100-41-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
2-phenoxyethanol (122-99-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Carbon black (1333-86-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Naphthalene (91-20-3)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] (54954-83-5)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
C.I. Solvent Black 29 (117527-94-3)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

EU-Regulations

4-methylpentan-2-one (108-10-1)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
diacetone alcohol (123-42-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Xylene (1330-20-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
ethylbenzene (100-41-4)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
2-phenoxyethanol (122-99-8)	
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)	
Naphthalene (91-20-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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

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

C.I. Solvent Black 29 (117527-94-3)

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

National regulations

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

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

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

15.3. US State regulations

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State or local regulations

The carbon black in this product is bound and is not respirable. California Prop. 65 warnings are not required.

4-methylpentan-2-one (108-10-1)

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	

ethylbenzene (100-41-4)

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	54

Carbon black (1333-86-4)

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	

Naphthalene (91-20-3)

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	

4-methylpentan-2-one (108-10-1)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

ethylbenzene (100-41-4)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

2-phenoxyethanol (122-99-6)

U.S. - Pennsylvania - RTK (Right to Know) List

Carbon black (1333-86-4)

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

Naphthalene (91-20-3)


U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

- Indication of changes
- Data sources
- Abbreviations and acronyms
- Other information
- NFPA health hazard
- NFPA fire hazard
- NFPA reactivity
- : SECTION 15.
- : ACGIH 2000.
- ESIS (European chemical Substances Information System; accessed at:
<http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.
- OSHA 29CFR 1910.1200 Hazard Communication Standard.
- 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.
- 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>.
- : 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.
- GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
- LD50: Lethal Dose for 50% of the test population.
- OSHA: Occupational Safety & Health Administration.
- STEL: Short Term Exposure Limits.
- TSCA: Toxic Substances Control Act.
- TWA: Time Weight Average.
- : None.
- : 2 - Intense or continued exposure could cause temporary
incapecitation or possible residual injury unless prompt
medical attention is given.
- : 4 - Will rapidly or completely vaporize at normal pressure
and temperature, or is readily dispersed in air and will burn
readily.
- : 0 - Normally stable, even under fire exposure conditions,
and not reactive with water.
- 

Full text of H-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. 4	Flammable liquids, Category 4
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H227	Combustible liquid

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H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
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

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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