Conforms to ANSI Z400.1-2004 Standard - United States, Canada, Mexico

Date : 07/15/2012
Version : 1.1

Material Safety Data Sheet

PRO-LINE(R) XT - White; Yellow; Red; Green; Blue; Black; Orange; Brown; Light Blue; Light-Green; Pink; Silver; Purple

1. Product and company identification

Product name : PRO-LINE(R) XT - White; Yellow; Red; Green; Blue; Black; Orange; Brown; Light Blue; Light-Green; Pink; Silver; Purple

Material uses : FOR INDUSTRIAL USE ONLY
Marking and Identification.

Code : 97250; 97251; 97252; 97255; 97254; 97253; 97256; 97263; 97259; 97258; 97261; 97257; GB2-155-2

Supplier/Manufacturer : LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village,
IL. 60007-5746

MSDS authored by : KMK Regulatory Services Inc.

In case of emergency : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

This MSDS reflects the health, physical and environmental hazards of the liquid ink contained within the pen/marker. Because of the nature of the finished product i.e. the fact that the ink is held internally within the pen/marker inside a closed (sealed) container, and given that the liquid is present in a small quantity and is released in very small amounts during normal use, the user of the product and/or the reader of this MSDS should consider the potential exposure to the ink to be minimal and controlled during the normal use of the product. Refer to relevant sections of the SDS (7 and 13) for additional information on handling and disposal considerations.
To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT open, heat, burn or expose it to a source of intense heat, as this could release the ink.

Emergency overview

Physical state : Liquid. [in cylindrical marker]

Color : White./Yellow./Red./Green./Blue./Black./Orange./Brown./Light-Blue./Light-Green./Pink./Silver./Purple.

Odor : Solvent.

Hazard statements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

2. Hazards identification

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

Medical conditions aggravated by overexposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
tert-Butyl acetate	540-88-5	30 - 60
Titanium Dioxide(*)	13463-67-7	30 - 60
Cyclohexanone	108-94-1	10 - 30
Naphtha (petroleum), hydrotreated heavy	64742-48-9	5 - 10
Kaolin(*)	1332-58-7	5 - 10
Carbon black(*)	1333-86-4	5 - 10
N-Butyl acetate	123-86-4	1 - 5
2-Methoxy-1-methylethyl acetate	108-65-6	1 - 5
Stoddard solvent	8052-41-3	1 - 5
Ethyl acetate	141-78-6	1 - 5

Canada

Name	CAS number	%
tert-Butyl acetate	540-88-5	30 - 60
Titanium Dioxide	13463-67-7	30 - 60
Cyclohexanone	108-94-1	10 - 30
Naphtha (petroleum), hydrotreated heavy	64742-48-9	5 - 10
Kaolin	1332-58-7	5 - 10
Carbon black	1333-86-4	5 - 10
N-Butyl acetate	123-86-4	1 - 5
2-Methoxy-1-methylethyl acetate	108-65-6	1 - 5
Stoddard solvent	8052-41-3	1 - 5
Ethyl acetate	141-78-6	1 - 5
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1

Mexico

					Classification			
Name	CAS number	UN number	%	IDLH	H	F	R	Special
Titanium Dioxide	13463-67-7	Not regulated.	30 - 60	5000 mg/m³	2	0	0	-
Cyclohexanone	108-94-1	UN1915	10 - 30	700 ppm	2	2	0	-
tert-Butyl acetate	540-88-5	UN1123	30 - 60	1500 ppm	1	3	0	-
Naphtha (petroleum), hydrotreated heavy	64742-48-9	UN1268	5 - 10	-	1	1	0	-
Carbon black	1333-86-4	Not regulated.	5 - 10	1750 mg/m³	2	1	0	-
2-Methoxy-1-methylethyl acetate	108-65-6	UN1993	1 - 5	-	1	1	0	-
N-Butyl acetate	123-86-4	UN1123	1 - 5	1700 ppm	1	3	0	-
Stoddard solvent	8052-41-3	UN1268	1 - 5	20000 mg/m³	1	2	0	-
Ethyl acetate	141-78-6	UN1173	1 - 5	2000 ppm	1	3	0	-
Kaolin	1332-58-7	Not regulated.	5 - 10	-	0	0	0	-

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

PRO-LINE(R) XT - White; Yellow; Red; Green; Blue; Black; Orange; Brown; Light Blue; Light-Green; Pink; Silver; Purple

3. Composition/information on ingredients

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

4. First aid measures

Eye contact : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.

Inhalation : Move exposed person to fresh air. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders : No special measures required.

Notes to physician : No specific treatment. Treat symptomatically.

5. Fire-fighting measures

Flammability of the product : May be combustible at high temperature.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Spill : Dispose via a licensed waste disposal contractor.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage : Store in accordance with local regulations.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
tert-Butyl acetate	**ACGIH TLV (United States, 2/2010).** TWA: 950 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** TWA: 950 mg/m³ 10 hour(s). TWA: 200 ppm 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 950 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 950 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s).
Titanium Dioxide	**OSHA PEL (United States, 6/2010).** TWA: 15 mg/m³ 8 hour(s). Form: Total dust **ACGIH TLV (United States, 2/2010).** TWA: 10 mg/m³ 8 hour(s).
Cyclohexanone	**ACGIH TLV (United States, 2/2010). Absorbed through skin.** STEL: 50 ppm 15 minute(s). TWA: 20 ppm 8 hour(s). **NIOSH REL (United States, 6/2009). Absorbed through skin.** TWA: 100 mg/m³ 10 hour(s). TWA: 25 ppm 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 200 mg/m³ 8 hour(s). TWA: 50 ppm 8 hour(s). **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 25 ppm 8 hour(s). TWA: 100 mg/m³ 8 hour(s).
Naphtha (petroleum), hydrotreated heavy	**ACGIH TLV (United States).** TWA: 300 ppm 8 hour(s).
Kaolin	**ACGIH TLV (United States, 1/2011).** TWA: 2 mg/m³ 8 hour(s). Form: Respirable fraction **NIOSH REL (United States, 6/2009).** TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction TWA: 10 mg/m³ 10 hour(s). Form: Total **OSHA PEL (United States, 6/2010).** TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust
Carbon black	**ACGIH TLV (United States, 2/2010).** TWA: 3 mg/m³ 8 hour(s). Form: Inhalable fraction. **NIOSH REL (United States, 6/2009).** TWA: 3.5 mg/m³ 10 hour(s). TWA: 0.1 mg of PAHs/cm³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 3.5 mg/m³ 8 hour(s).
N-Butyl acetate	**ACGIH TLV (United States, 2/2010).** STEL: 200 ppm 15 minute(s). TWA: 150 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** STEL: 950 mg/m³ 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 710 mg/m³ 10 hour(s). TWA: 150 ppm 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 710 mg/m³ 8 hour(s). TWA: 150 ppm 8 hour(s).
2-Methoxy-1-methylethyl acetate	**AIHA WEEL (United States, 5/2010).** TWA: 50 ppm 8 hour(s).
Stoddard solvent	**ACGIH TLV (United States, 2/2010).** TWA: 525 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** CEIL: 1800 mg/m³ 15 minute(s). TWA: 350 mg/m³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 2900 mg/m³ 8 hour(s). TWA: 500 ppm 8 hour(s).
Ethyl acetate	**ACGIH TLV (United States, 2/2010).** TWA: 1440 mg/m³ 8 hour(s).

8. Exposure controls/personal protection

	TWA: 400 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** TWA: 1400 mg/m³ 10 hour(s). TWA: 400 ppm 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1400 mg/m³ 8 hour(s). TWA: 400 ppm 8 hour(s).

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Titanium Dioxide	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
	BC 9/2010	-	3	-	-	-	-	-	-	-	[a]
		-	10	-	-	-	-	-	-	-	[b]
	ON 7/2010	-	10	-	-	-	-	-	-	-	[b]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[b]
Cyclohexanone	US ACGIH 2/2010	20	-	-	50	-	-	-	-	-	[1]
	AB 4/2009	20	80	-	50	200	-	-	-	-	[1]
	BC 9/2010	20	-	-	50	-	-	-	-	-	[1]
	ON 7/2010	20	-	-	50	-	-	-	-	-	[1]
	QC 6/2008	25	100	-	-	-	-	-	-	-	[1]
tert-Butyl acetate	US ACGIH 2/2010	200	950	-	-	-	-	-	-	-	
	AB 4/2009	200	950	-	-	-	-	-	-	-	[3]
	BC 9/2010	200	-	-	-	-	-	-	-	-	
	ON 7/2010	200	950	-	-	-	-	-	-	-	
	QC 6/2008	200	950	-	-	-	-	-	-	-	
Naphtha (petroleum), hydrotreated heavy	US ACGIH	300	-	-	-	-	-	-	-	-	
Carbon black	US ACGIH 2/2010	-	3	-	-	-	-	-	-	-	[c]
	AB 4/2009	-	3.5	-	-	-	-	-	-	-	
	BC 9/2010	-	3.5	-	-	-	-	-	-	-	
	ON 7/2010	-	3.5	-	-	-	-	-	-	-	
	QC 6/2008	-	3.5	-	-	-	-	-	-	-	
2-Methoxy-1-methylethyl acetate	BC 9/2010	50	-	-	75	-	-	-	-	-	
	ON 7/2010	50	270	-	-	-	-	-	-	-	
	US AIHA 5/2010	50	-	-	-	-	-	-	-	-	
N-Butyl acetate	US ACGIH 2/2010	150	-	-	200	-	-	-	-	-	
	AB 4/2009	150	713	-	200	950	-	-	-	-	[3]
	BC 9/2010	20	-	-	-	-	-	-	-	-	
	ON 7/2010	150	-	-	200	-	-	-	-	-	
	QC 6/2008	150	713	-	200	950	-	-	-	-	
Stoddard solvent	US ACGIH 2/2010	100	525	-	-	-	-	-	-	-	
	AB 4/2009	100	572	-	-	-	-	-	-	-	
	BC 9/2010	-	290	-	-	580	-	-	-	-	
	ON 7/2010	100	525	-	-	-	-	-	-	-	
	QC 6/2008	100	525	-	-	-	-	-	-	-	
Ethyl acetate	US ACGIH 2/2010	400	1440	-	-	-	-	-	-	-	
	AB 4/2009	400	1440	-	-	-	-	-	-	-	[3]
	BC 9/2010	150	-	-	-	-	-	-	-	-	
	ON 7/2010	400	1440	-	-	-	-	-	-	-	
	QC 6/2008	400	14	-	40	-	-	-	-	-	
1,2,4-Trimethylbenzene	US ACGIH 2/2010	25	123	-	-	-	-	-	-	-	
	AB 4/2009	25	123	-	-	-	-	-	-	-	
	BC 9/2010	25	-	-	-	-	-	-	-	-	
	ON 7/2010	25	123	-	-	-	-	-	-	-	
	QC 6/2008	25	123	-	-	-	-	-	-	-	
Kaolin	US ACGIH 1/2011	-	2	-	-	-	-	-	-	-	[d]
	AB 4/2009	-	2	-	-	-	-	-	-	-	[e]
	BC 9/2011	-	2	-	-	-	-	-	-	-	[e]
	ON 7/2010	-	2	-	-	-	-	-	-	-	[d]
	QC 9/2011	-	5	-	-	-	-	-	-	-	[a]

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

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

Mexico

Occupational exposure limits

8. Exposure controls/personal protection

Ingredient	Exposure limits
tert-Butyl acetate	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 1190 mg/m³ 15 minute(s). LMPE-CT: 250 ppm 15 minute(s). LMPE-PPT: 950 mg/m³ 8 hour(s). LMPE-PPT: 200 ppm 8 hour(s).
Titanium Dioxide	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 20 mg/m³, (as Ti) 15 minute(s). LMPE-PPT: 10 mg/m³, (as Ti) 8 hour(s).
Cyclohexanone	**NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.** LMPE-CT: 400 mg/m³ 15 minute(s). LMPE-CT: 100 ppm 15 minute(s). LMPE-PPT: 200 mg/m³ 8 hour(s). LMPE-PPT: 50 ppm 8 hour(s).
Naphtha (petroleum), hydrotreated heavy	**ACGIH TLV (United States).** TWA: 300 ppm 8 hour(s).
Kaolin	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 10 mg/m³ 8 hour(s). LMPE-CT: 20 mg/m³ 15 minute(s).
Carbon black	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 7 mg/m³ 15 minute(s). Form: smoke LMPE-PPT: 3.5 mg/m³ 8 hour(s). Form: smoke
N-Butyl acetate	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 950 mg/m³ 15 minute(s). LMPE-CT: 200 ppm 15 minute(s). LMPE-PPT: 710 mg/m³ 8 hour(s). LMPE-PPT: 150 ppm 8 hour(s).
Stoddard solvent	**NOM-010-STPS (Mexico, 9/2000).** LMPE-CT: 1050 mg/m³ 15 minute(s). LMPE-CT: 200 ppm 15 minute(s). LMPE-PPT: 523 mg/m³ 8 hour(s). LMPE-PPT: 100 ppm 8 hour(s).
Ethyl acetate	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 1400 mg/m³ 8 hour(s). LMPE-PPT: 400 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protection

Respiratory : Not required for normal use of the pen/marker. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Not required for normal use of the pen/marker. Use gloves appropriate for work or task performed.

Eyes : Not required for normal use of the pen/marker. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : No special protective clothing is required.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state	:	Liquid. [in cylindrical marker]
Flash point	:	Closed cup: 23 to 37.8°C (73.4 to 100°F) [Pensky-Martens.]
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Auto-ignition temperature	:	Not available.
Flammable limits	:	Not available.
Color	:	White./Yellow./Red./Green./Blue./Black./Orange./Brown./Light-Blue./Light-Green./Pink./Silver./Purple.
Odor	:	Solvent.
Taste	:	Not available.
Molecular weight	:	Not applicable.
Molecular formula	:	Not applicable.
pH	:	Not applicable.
Boiling/condensation point	:	Not available.
Melting/freezing point	:	Not available.
Critical temperature	:	Not available.
Relative density	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Volatility	:	Not available.
Odor threshold	:	Not available.
Evaporation rate	:	Not available.
SADT	:	Not available.
Viscosity	:	Not available.
Ionicity (in water)	:	Not available.
Dispersibility properties	:	Not available.
Solubility	:	Not available.
Physical/chemical properties comments	:	Not available.

10. Stability and reactivity

Chemical stability	:	The product is stable.
Conditions to avoid	:	No specific data.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials, acids, alkalis and moisture.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Oral	Rat	1800 mg/kg	-
tert-Butyl acetate	LD50 Oral	Rat	4100 mg/kg	-
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapor	Rat	8500 mg/m3	4 hours
	LD50 Oral	Rat	>6 g/kg	-
Carbon black	LD50 Oral	Rat	>15400 mg/kg	-
2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
N-Butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m3	4 hours
	LD50 Oral	Rat	5 g/kg	-

Chronic toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250 µg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	48 hours 50%	-
tert-Butyl acetate	Eyes - Mild irritant	Rabbit	-	100 µL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 µL	-
N-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Stoddart solvent	Eyes - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Human	-	100 ppm	-

Sensitizer

Skin : There is no data available.

Respiratory : There is no data available.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Titanium Dioxide	A4	2B	-	None.	-	-
Cyclohexanone	A3	3	-	-	-	-
Carbon black	A4	2B	-	+	-	-
N-Butyl acetate	A4	-	-	-	-	-
Ethyl acetate	A4	-	-	-	-	-

Mutagenicity

There is no data available.

Teratogenicity

There is no data available.

Reproductive toxicity

There is no data available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute EC50 5.83 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours
	Acute LC50 >1000000 ug/L Marine water	Fish - Fundulus heteroclitus	96 hours
Cyclohexanone	Acute EC50 32.9 mg/L Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase - 7 days	72 hours
	Acute LC50 527000 to 578000 ug/L Fresh water	Fish - Pimephales promelas - 30 days - 20.2 mm - 0.127 g	96 hours
tert-Butyl acetate	Acute LC50 327000 to 362000 ug/L Fresh water	Fish - Pimephales promelas - 30 days - 20.8 mm - 0.136 g	96 hours
N-Butyl acetate	Acute LC50 32000 ug/L Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 18000 to 19000 ug/L Fresh water	Fish - Pimephales promelas - 31 to 32 days - 21.6 mm - 0.175 g	96 hours
Ethyl acetate	Acute EC50 2500000 ug/L Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 ug/L Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 ug/L Fresh water	Daphnia - Daphnia cucullata - 11 days	48 hours
	Acute LC50 212500 to 225420 ug/L Fresh water	Fish - Heteropneustes fossilis - 14.16 cm - 25.54 g	96 hours
	Chronic NOEC mg/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/L Fresh water	Fish - Pimephales promelas - Embryo - <24 hours	32 days
1,2,4-Trimethylbenzene	Acute LC50 4910 ug/L Marine water	Crustaceans - Elasmopus pectinicrus - Adult	48 hours
	Acute LC50 7720 to 8280 ug/L Fresh water	Fish - Pimephales promelas - 34 days	96 hours

Persistence/degradability

There is no data available.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

DOT/TDG/MXT/IMDG/IATA : Not regulated.

15. Regulatory information

United States

HCS Classification : Not classified.

U.S. Federal regulations : **TSCA 8(a) PAIR**: tert-Butyl acetate; 2-Methoxy-1-methylethyl acetate; Dipropylene glycol methyl ether

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

TSCA 8(d) H and S data reporting: 1-Propoxypropan-2-ol

United States inventory (TSCA 8b): Not determined.

15. Regulatory information

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: N-Butyl acetate; tert-Butyl acetate; Cyclohexanone; 2-Methoxy-1-methylethyl acetate; Ethyl acetate; Stoddart solvent; Carbon black; Titanium Dioxide; Kaolin
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: N-Butyl acetate: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; tert-Butyl acetate: Fire hazard, Immediate (acute) health hazard; Cyclohexanone: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; 2-Methoxy-1-methylethyl acetate: Fire hazard; Ethyl acetate: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Stoddart solvent: Fire hazard, Immediate (acute) health hazard; Carbon black: Immediate (acute) health hazard, Delayed (chronic) health hazard; Titanium Dioxide: Delayed (chronic) health hazard; Kaolin: Delayed (chronic) health hazard

Clean Water Act (CWA) 311: tert-Butyl acetate; N-Butyl acetate

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations

Massachusetts : The following components are listed: Titanium Dioxide; Cyclohexanone; tert-Butyl acetate; N-Butyl acetate; Carbon black; Ethyl acetate; Stoddart solvent

New York : The following components are listed: Cyclohexanone; tert-Butyl acetate; N-Butyl acetate; Ethyl acetate

New Jersey : The following components are listed: Titanium Dioxide; Cyclohexanone; tert-Butyl acetate; N-Butyl acetate; Kaolin; Carbon black; Ethyl acetate; Stoddart solvent

Pennsylvania : The following components are listed: Titanium Dioxide; Cyclohexanone; tert-Butyl acetate; N-Butyl acetate; Kaolin; Carbon black; Ethyl acetate; Stoddart solvent

California Prop. 65

No products were found.

Canada

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

Canadian lists

Canadian NPRI : The following components are listed: N-Butyl acetate; Naphtha (petroleum), hydrotreated heavy; Ethyl acetate; 2-Methoxy-1-methylethyl acetate; Stoddart solvent

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

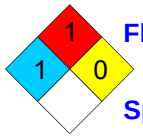
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :

PRO-LINE(R) XT - White; Yellow; Red; Green; Blue; Black; Orange; Brown; Light Blue; Light-Green; Pink; Silver; Purple

15. Regulatory information



16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.) : **Health :** 1 **Flammability :** 1 **Physical hazards :** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) : **Health :** 1 **Flammability :** 1 **Instability :** 0

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History

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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.