

1. Product and Company Identification

Material name	Durabrite Ink (all Colors), TSO-Econo, TSO-1, TSO-2, TSO-3, TSO-4, TSO-6, TSO-8, TSO-3100
Version #	01
Issue date	07-12-2012
Revision date	
Supersedes date	-
CAS #	Mixture
Product use	Printing.
Manufacturer/Supplier	FoxJet, an ITW Company 1 Missouri Research Park Drive, St. Charles MO 63304-5685 USA <u>info@foxjet.com</u> Contact Person: Customer Service 800-369-5384
Emergency	Emergency telephone 800-535-5053 (US only) +1-352-323-3500 international
2. Hazards Identification	
Physical state	Liquid.
Appearance	Liquid.
Emergency overview	WARNING
	FLAMMABLE LIQUID AND VAPOR.
	Causes eye and respiratory tract irritation. May cause mild skin irritation.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Causes eye irritation.
Skin	
OKIT	May cause mild skin irritation.
Inhalation	May cause mild skin irritation. Causes respiratory tract irritation.
-	
Inhalation	Causes respiratory tract irritation. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of
Inhalation Ingestion	Causes respiratory tract irritation. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Contains organic solvents which in case of overexposure may depress the central nervous system
Inhalation Ingestion Chronic effects	 Causes respiratory tract irritation. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Exposed individuals may experience eye tearing, redness, and discomfort. Vapors may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness,

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethanol	64-17-5	25 - 81
Ethyl acetate	141-78-6	0 - 25
2-Propanol	67-63-0	5 - 15
1-Methoxy-2-propanol	107-98-2	0 - 10
Propan-1-ol	71-23-8	0 - 10

Components	CAS #	Percent
Titanium dioxide	13463-67-7	0 - 10
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	0 - 2
C.I. Pigment Yellow 83	5567-15-7	0 - 2
Pigment red	3905-19-9	0 - 2

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention immediately.
Skin contact	Take off contaminated clothing and wash before reuse. Wash off with warm water and soap. Get medical attention if irritation develops and persists.
Inhalation	Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and take along these instructions.
Ingestion	Rinse mouth thoroughly. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort continues.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

5. Fire Fighting Measures

Flammable properties	The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.
Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground unless authorized by permit.
Methods for containment	Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up	Extinguish all flames in the vicinity.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.
7. Handling and Storage	
Handling	Do not smoke and do not spray near an open flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. All equipment used when handling the product must be grounded. Local exhaust is recommended. Observe good industrial hygiene practices. Use Personal Protective Equipment recommended in section 8 of the MSDS.
Storage	Follow rules for flammable liquids. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame. Store in a closed container away from incompatible materials. Store between 35°F (2°C) and 120°F (49°C).

8. Exposure Controls / Personal Protection

US. ACGIH Threshold Limit Value Components	Туре	Value	
1-Methoxy-2-propanol (CAS	STEL	150 ppm	
107-98-2)			
	TWA	100 ppm	
2-Propanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	400 ppm	
Propan-1-ol (CAS 71-23-8)	TWA	100 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910	.1000)	
Components	Туре	Value	Form
2-Propanol (CAS 67-63-0)	PEL	980 mg/m3	
,		400 ppm	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	PEL	1400 mg/m3	
		400 ppm	
Propan-1-ol (CAS 71-23-8)	PEL	500 mg/m3	
		200 ppm	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	553 mg/m3	
		150 ppm	
	TWA	369 mg/m3	
		100 ppm	
2-Propanol (CAS 67-63-0)	STEL	984 mg/m3	
		400 ppm	
	TWA	492 mg/m3	
		200 ppm	
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3	
1		1000 ppm	

Components	nal Health & Safety Code, Sche Type	Value	
thyl acetate (CAS 41-78-6)	TWA	1440 mg/m3	
		400 ppm	
ropan-1-ol (CAS 71-23-8)	STEL	984 mg/m3	
	T \ 6 / 6	400 ppm	
	TWA	492 mg/m3	
		200 ppm	
itanium dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
anada. British Columbia OELs. (C afety Regulation 296/97, as amen		for Chemical Substances, Oc	cupational Health and
components	Туре	Value	Form
Methoxy-2-propanol (CAS	STEL	75 ppm	
)7-98-2)		- 1 1	
,	TWA	50 ppm	
Propanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
thanol (CAS 64-17-5)	STEL	1000 ppm	
thyl acetate (CAS	TWA	150 ppm	
41-78-6)			
ropan-1-ol (CAS 71-23-8)	TWA	100 ppm	
			Poppirable fraction
tanium dioxide (CAS 3463-67-7)	TWA	3 mg/m3	Respirable fraction.
0403-07-7)		10 m ~/ ~ 2	Total dust
		10 mg/m3	Total dust.
anada. Ontario OELs. (Control of			
omponents	Туре	Value	
Methoxy-2-propanol (CAS	STEL	150 ppm	
)7-98-2)			
	TWA	100 ppm	
Propanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
thanol (CAS 64-17-5)	STEL	1000 ppm	
thyl acetate (CAS	TWA	400 ppm	
41-78-6)			
ropan-1-ol (CAS 71-23-8)	TWA	100 ppm	
itanium dioxide (CAS	TWA	10 mg/m3	
3463-67-7)		TO HIG/HIG	
anada Quebec OFLs (Ministry of	f Labor - Regulation Respectiv	ng the Quality of the Work En	vironment)
anada. Quebec OLLS. (IVIIIIIStry O			-
components	Туре	Value	Form
omponents			-
	Туре	Value	-
omponents Methoxy-2-propanol (CAS	Туре	Value 553 mg/m3	-
omponents Methoxy-2-propanol (CAS	Туре	Value 553 mg/m3 150 ppm	-
omponents Methoxy-2-propanol (CAS	Type STEL	Value 553 mg/m3 150 ppm 369 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2)	Type STEL TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm	-
omponents -Methoxy-2-propanol (CAS 07-98-2)	Type STEL	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2)	Type STEL TWA STEL	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm	-
omponents -Methoxy-2-propanol (CAS	Type STEL TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3	-
-Methoxy-2-propanol (CAS 07-98-2) -Propanol (CAS 67-63-0)	Type STEL TWA STEL TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0)	Type STEL TWA STEL	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5)	Type STEL TWA STEL TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5)	Type STEL TWA STEL TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS	Type STEL TWA STEL TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6)	Type STEL TWA STEL TWA TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3 400 ppm	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6)	Type STEL TWA STEL TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6)	Type STEL TWA STEL TWA TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3 400 ppm	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6)	Type STEL TWA STEL TWA TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3	-
omponents Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6)	Type STEL TWA STEL TWA TWA TWA STEL	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1440 mg/m3 400 ppm 1440 mg/m3 400 ppm 1440 mg/m3 400 ppm	-
Methoxy-2-propanol (CAS 07-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6) ropan-1-ol (CAS 71-23-8)	Type STEL TWA STEL TWA TWA TWA STEL	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1880 mg/m3 1000 ppm 1440 mg/m3 400 ppm 614 mg/m3 250 ppm	-
omponents Methoxy-2-propanol (CAS)7-98-2) Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 11-78-6) ropan-1-ol (CAS 71-23-8) tanium dioxide (CAS 3463-67-7)	Type STEL TWA STEL TWA TWA TWA STEL TWA TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1440 mg/m3 400 ppm 1440 mg/m3 250 ppm 492 mg/m3 200 ppm	Form
-Methoxy-2-propanol (CAS 07-98-2) -Propanol (CAS 67-63-0) thanol (CAS 64-17-5) thyl acetate (CAS 41-78-6) ropan-1-ol (CAS 71-23-8)	Type STEL TWA STEL TWA TWA TWA STEL TWA TWA TWA	Value 553 mg/m3 150 ppm 369 mg/m3 100 ppm 1230 mg/m3 500 ppm 983 mg/m3 400 ppm 1440 mg/m3 400 ppm 1440 mg/m3 250 ppm 492 mg/m3 200 ppm	Form

Durabrite Ink (all Colors), TSO-Econo, TSO-1, TSO-2, TSO-3, TSO-4, TSO-6, TSO-8, TSO-3100 909525 Version #: 01 Revision date: - Issue date: 07-12-2012

Components	Туре	Value
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	500 ppm
	TWA	980 mg/m3
		400 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
, , , , , , , , , , , , , , , , , , ,		1000 ppm
Ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3
		400 ppm
Propan-1-ol (CAS 71-23-8)	STEL	625 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
Titanium dioxide (CAS 13463-67-7)	STEL	20 mg/m3
	TWA	10 mg/m3
jineering controls		its and minimize the risk of inhalation. Explosion-proof . Provide easy access to water supply or an emergency
sonal protective equipment		
Eye / face protection	Wear approved safety goggles.	
Skin protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.	
General hygiene considerations		ne measures, such as washing after handling the material noking. Routinely wash work clothing and protective

9. Physical & Chemical Properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Various.
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Vapor pressure	97 hPa at 20°C
Vapor density	Not available.
Boiling point	168.8 °F (76 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	30.2 °F (-1 °C)
Flammability limits in air, upper, % by volume	15 % v/v
Flammability limits in air, lower, % by volume	2.1 % v/v
Auto-ignition temperature	518 °F (270 °C)
Other data	
Flammability (solid, gas)	Not applicable.

10. Chemical Stability & Reactivity Information

Chemical stability	The product is stable and non reactive under normal conditions of use, storage and transport.
Conditions to avoid	Contact with incompatible materials. Keep away from heat, sparks and open flame.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases. Alkali metals. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data			
Components	Species	Test Results	
1-Methoxy-2-propanol (CAS	107-98-2)		
Acute Inhalation			
LC50	Rat	15000 ppm, 4 Hours	
Oral			
LD50	Rat	6600 mg/kg	
	2-)-N29,N30,N31,N32 copper (CAS 147-1		
Acute		+-0)	
Oral			
Crui	Rat	15000 mg/kg	
2-Propanol (CAS 67-63-0)			
Acute			
Inhalation			
LC50	Rat	16000 ppm, 8 hours	
Oral			
LD50	Rat	5045 mg/kg	
Ethanol (CAS 64-17-5)			
Acute			
Inhalation			
LC50	Rat	30000 mg/m3	
Oral			
LD50	Rat	11.5 g/kg	
Ethyl acetate (CAS 141-78-6	6)		
Acute			
Inhalation	-		
LC50	Rat	16000 mg/l, 6 Hours	
Oral	5.4		
LD50	Rat	5600 mg/kg	
Propan-1-ol (CAS 71-23-8)			
Acute			
Oral LD50	Rat	1.87 g/kg	
		1.07 g/kg	
Sensitization	No data available.		
Acute effects	-	May cause discomfort if swallowed.	
Local effects		Causes eye and respiratory tract irritation. May cause mild skin irritation.	
Chronic effects	The product contains organic solv	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. The product contains organic solvents which may be absorbed into the body by skin contact and cause permanent damage to the nervous system, including the brain.	
Carcinogenicity	Titanium dioxide is considered ca	Titanium dioxide is considered carcinogenic only when in an inhalable powdered form.	
<u> </u>			

ACGIH Carcinogens		
2-Propanol (CAS 67-63-0)		A4 Not classifiable as a human carcinogen.
Ethanol (CAS 64-17-5)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Propan-1-ol (CAS 71-23-8)		A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13463-67-7)		A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Titanium dioxide (CAS 13463-67-7)		2B Possibly carcinogenic to humans.
Mutagenicity	No data available.	
Reproductive effects	No data available.	
Symptoms and target organs	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Exposed individuals may experience eye tearing, redness, and discomfort. Vapors may cause drowsiness and dizziness.	

12. Ecological Information

	••		
Ecotoxicological data Components		Species	Test Results
2-Propanol (CAS 67-63-0)		-	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
C.I. Pigment Yellow 83 (CAS 556	67-15-7)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	18 mg/l, 48 hours
Ethanol (CAS 64-17-5)			
Aquatic			
Algae Fish	EC50	Freshwater algae	275 mg/l, 72 Hours
		Marine water algae	1970 mg/l
Invertebrate	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
		Freshwater fish	11200 mg/l, 96 Hours
Ethyl acetate (CAS 141-78-6)	EC50	Freshwater invertebrate	5012 mg/l, 48 Hours
Aquatic		Marine water invertebrate	857 mg/l, 48 Hours
Fish			
Propan-1-ol (CAS 71-23-8)			
Aquatic	LC50	Indian catfish (Heteropneustes fossilis)	200.32 - 225.42 mg/l, 96 Hours
Crustacea			
Fish			
	EC50	Water flea (Daphnia magna)	3339 - 3977 mg/l, 48 hours
	LC50	Bleak (Alburnus alburnus)	3000 - 4000 mg/l, 96 hours
Titanium dioxide (CAS 13463-67	·-7)		
Aquatic	,		
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Ecotoxicity	The produ	ct contains a substance which may cause long	a-term adverse effects in the environment.
Environmental effects	-	nmental hazard cannot be excluded in the ever	
Persistence and degradability	No data av		
Bioaccumulation / Accumulation	Not availa		
Partition coefficient			
Ethanol		-0.31	
2-Propanol		0.05 0.25	
Propan-1-ol Ethyl acetate		0.25 0.73	
		00	

Mobility in environmental The product is partially soluble in water. It will partially dissolve in water and partially spread on media water surfaces while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 °F
Disposal instructions	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

BOI	
Basic shipping requirement	s:
UN number	UN1210
Proper shipping name	Printing ink
Hazard class Packing	3
group Environmental	ll
hazards	
Marine pollutant	No
Special precautions	Read safety instructions, MSDS and emergency procedures before handling.
Additional information:	
Special provisions	149, IB2, T4, TP1, TP8
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1210
UN proper shipping name	Printing ink
Transport hazard class(es)	3
Packing group	II
Environmental hazards	No
Labels required	3
ERG code	3L
	Read safety instructions, MSDS and emergency procedures before handling.
IMDG	
UN number	UN1210
UN proper shipping name	PRINTING INK
Transport hazard class(es)	3
Packing group	ll
Environmental hazards	
Marine pollutant	No
Labels required	3
EmS No.	F-E, S-D
TDG	
Proper shipping name	PRINTING INK
Hazard class UN	3
number Packing	UN1210
group Marine	
pollutant Special	No
provisions Labels	59, 83
required	3
15. Regulatory Informatior)
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US federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

	Section 313 - Toxic Chemical:		
2-Propanol (CAS 67-63-	,	1.0 %	
CERCLA (Superfund) reportable	e quantity (lbs) (40 CFR 302.4)		
Ethyl acetate: 5000 Propan-1-ol: 100			
Superfund Amendments and Re	eauthorization Act of 1986 (SA	RA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No		
Section 311/312 (40 CFR 370)	Yes		
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled		
Canadian regulations	Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.		
WHMIS status	Controlled		
WHMIS classification	B2 - Flammable Liquids D1A - Immediate/Serious-VEI D2B - Other Toxic Effects-TO		
WHMIS labeling			
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (D	SL)	Yes
Canada	Non-Domestic Substances Lis		No
	omplies with the inventory requireme	ents administered by the governing country(s)	
State regulations			
	Substances (Director's): Listed		
1-Methoxy-2-propanol (CAS 107-98-2) 2-Propanol (CAS 67-63-0) Ethanol (CAS 64-17-5) Ethyl acetate (CAS 141-78-6) Propan-1-ol (CAS 71-23-8)		Listed. Listed. Listed. Listed. Listed.	
		tive Toxicity (CRT): Listed substance	
•	65 - CRT: Listed date/Carcino		
Titanium dioxide (CAS 1 US - New Jersey RTK - Sub		Listed: September 2, 2011 Carcinogenic.	
1-Methoxy-2-propanol (CAS 107-98-2) Listed. 29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper Listed.			

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 coppe (CAS 147-14-8)	er Listed.
2-Propanol (CAS 67-63-0)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propan-1-ol (CAS 71-23-8)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
US. Massachusetts RTK - Substance List	
1-Methoxy-2-propanol (CAS 107-98-2)	Listed.
2-Propanol (CAS 67-63-0)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Ethyl acetate (CAS 141-78-6)	Listed.

Propan-1-ol (CAS 71-23-8) Titanium dioxide (CAS 13463-67-7) US. New Jersey Worker and Community Right-to-Know Act		Listed. Listed.
2-Propanol (CAS 67-63-0)		500 LBS
US. Pennsylvania RTK - Haz	ardous Substances	
1-Methoxy-2-propanol (CAS 107-98-2)		Listed.
2-Propanol (CAS 67-63-0)	Listed.
Ethanol (CAS 64-17-5)		Listed.
Ethyl acetate (CAS 141-7	8-6)	Listed.
Propan-1-ol (CAS 71-23-8		Listed.
Titanium dioxide (CAS 13	463-67-7)	Listed.
Mexico regulations	This safety data sheet was pre (NOM-018-STPS-2000).	pared in accordance with the Official Mexican Standard
16. Other Information		
Further information	HMIS® is a registered trade ar	nd service mark of the NPCA.
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0	
NFPA ratings	Health: 2 Flammability: 3 Instability: 0	
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.	