Material Safety Data Sheet

GENUINE DTG CYAN PIGMENT INK

Version 2.0

Revision Date 11/09/2014

Ref. 130000128491

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MSDS Number	GENUINE DTG CYAN PIGMENT INK 130000128491	
Manufacturer/ Distributor	Colman & Company, Inc. 5409 S West Shore Blvd Tampa FL 33611	
Product Information Medical Emergency Transport Emergency	1-302-774-1000 1-800-441-3637 (outside the U.S. 1-302-774-113 CHEMTREC: +1-800-424-9300 (outside the U.S.	

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects Skin	:	May cause skin irritation. Discomfort, itching, redness, or swelling.
Eyes	:	May cause eye irritation. Tearing, redness, or discomfort.
Inhalation	:	May cause irritation of respiratory tract.
Ingestion	:	May cause: Central nervous system depression
Repeated exposure	:	Adverse effects from repeated dermal exposure may include:, Kidney effects
Target Organ Ethane-1,2-diol	:	Kidney
Carcinogenicity None of the components NTP, or OSHA, as a car	•	ent in this material at concentrations equal to or greater than 0.1% are listed by IARC, en.
Ethane-1,2-diol	: Tł	is material has been classified as a probable human carcinogen.
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Ethane-1,2-diol	107-21-1	<20 %
Alkyl ether		<10 %
Copper compound		<10 %
Cyclic amide		<10 %
Non regulated ingredients		>50%

Any component not specifically identified is considered a trade secret. Properties and potential hazards of any trade secret component are included in this safety data sheet.

SECTION 4. FIRST AID MEASURES

Skin contact	 Wash off immediately with plenty of water. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
Eye contact	: Immediately flush eye(s) with plenty of water. Seek medical advice.
Inhalation	: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion	: Is not considered a potential route of exposure. If swallowed Do NOT induce vomiting. Call a physician or poison control centre immediately.

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SECTION 5. FIREFIGHTING MEAS	SURES
Flammable Properties Flash point	: 93 °C (199 °F)
Fire and Explosion Hazard	: Not a fire or explosion hazard. Cool closed containers exposed to fire with water spray.
Suitable extinguishing media	: Not combustible.
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Keep containers and surroundings cool with water spray.
Firefighting Instructions	 Immediately evacuate personnel to safe areas. Wear suitable protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers/tanks with water spray.
SECTION 6. ACCIDENTAL RELEA	SE MEASURES
	MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. ROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.
Spill Cleanup	: Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated surface thoroughly.
Accidental Release Measures	 Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations. Dispose of in accordance with local regulations.
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SECTION 7. HANDLING AND S	TORAGE			
Handling (Personnel)	in areas Handle in contact v be allowe protectiv	without adequate ven n accordance with goo with skin, eyes and clo ed out of the workplac	od industrial hygiene and safety practice. Avoid othing. Contaminated work clothing should not e. Remove contaminated clothing and ntering eating areas. Remove and wash	
Handling (Physical Aspects)	: Keep aw	ay from heat and sou	rces of ignition. Avoid formation of aerosol.	
Storage	of ignitio areas wh containe	n - No smoking. Do no here they may become	he original container. Keep away from sources ot store or consume food, drink or tobacco in e contaminated with this material. Keep ise. Do not reuse empty container. s.	
SECTION 8. EXPOSURE CONTI	ROLS/PERSO	NAL PROTECTION		
Engineering controls		s. Maintain air concen	hood should be used when handling the trations below occupational exposure	
Personal protective equipmer Respiratory protection		adequate ventilation.		
Hand protection	: Material:	Impervious gloves		
Eye protection	: Wear sa	fety glasses with side	shields.	
Exposure Guidelines Exposure Limit Values				
	(400)	100 mg/m3	TLV-C Aerosol.	
Ethane-1,2-diol TLV	(ACGIH)	3		
	(ACGIH)	10 mg/m3	8 & 12 hr. TWA Particulate.	

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AEL *	50 ppm 8 & 12 hr. TWA Vapor.
Alkyl ether AEL *	10 mg/m3 8 & 12 hr. TWA Aerosol.
AEL *	8 & 12 hr. TWA Vapor.
Cyclic amide AEL *	8 & 12 hr. TWA
	ure Limit. Where governmentally imposed occupational exposure limits which are ffect, such limits shall take precedence.
Form Color Odor pH Boiling point Evaporation rate	 i liquid blue not significant 7 - 9 100 °C (212 °F) Slower than Ether
SECTION 10. STABILITY AND F	
Stability Conditions to avoid	: No decomposition if stored normally.
	 None reasonably foreseeable. Oxidizing agents Strong acids, alkaline substances
Incompatibility Hazardous decomposition products	: Under fire conditions:, formaldehyde-like
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SECTION 1	11. TOXICOLOGICAL INFO	RMA	ΓΙΟΝ
Ethan	ie-1,2-diol Dermal LD50	:	> 3,500 mg/kg , Mouse
	Oral LD50	:	1,650 mg/kg , Cat
	Skin irritation	:	No skin irritation, Rabbit
	Eye irritation	:	No eye irritation, Rabbit
	Skin sensitization	:	Does not cause skin sensitisation., human
	Repeated dose toxicity	:	Oral Rat
			Target Organs: Kidney Kidney damage
	Carcinogenicity	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
	Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
	Reproductive toxicity	:	No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.
	Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
Alkyl ether	Dermal LD50	:	13,300 mg/kg , Rabbit
	Oral LD50	:	20,760 mg/kg , Rat
	Inhalation 4 h LC50	:	> 48.1 mg/l , Rat
	Inhalation 4 h Acute	:	> 5 mg/l , Rat
	toxicity estimate Skin irritation	:	slight irritation, Rabbit
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Eye irritation :	slight irritation, Rabbit
Skin sensitization :	Did not cause sensitisation on laboratory animals., Guinea pig
	Patch test on human volunteers did not demonstrate sensitisation properties., human
Repeated dose toxicity :	Oral multiple species
	Oxylate crystal deposition
Carcinogenicity :	Not classifiable as a human carcinogen.
Mutagenicity :	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Reproductive toxicity :	No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity :	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Copper compound	
Dermal LD50 :	> 5,000 mg/kg , Rat
Oral LD50 :	> 16,000 mg/kg , Mouse
Skin irritation :	No skin irritation, Rabbit
Eye irritation :	No eye irritation, Rabbit
Skin sensitization :	Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity :	Oral Rat
	No toxicologically significant effects were found.
Mutagenicity :	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity :	No toxicity to reproduction
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Т	eratogenicity	:	Animal testing showed no reproductive toxicity. Animal testing showed no developmental toxicity.
Cyclic amide	Dermal LD50		> 2,000 mg/kg , Rat
	Dral LD50	:	8,000 mg/kg , Rat
Ir	nhalation	:	Rat An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
s	Skin irritation	:	No skin irritation, Rabbit
E	ye irritation	:	Eye irritation, Rabbit
S	Skin sensitization	:	Does not cause skin sensitisation., Mouse Information given is based on data obtained from similar substances.
R	Repeated dose toxicity	:	Oral Rat
			Kidney effects
N	Autagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
R	Reproductive toxicity	:	No toxicity to reproduction Animal testing showed no reproductive toxicity.
Т	eratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Ethane-1,2-diol 96 h LC50

: Pimephales promelas (fathead minnow) 72,860 mg/l 8 / 11

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Revision Date 11/09/2014 Ref. 130000128491 96 h ErC50 : Pseudokirchneriella subcapitata (green algae) 6,500 mg/l 48 h EC50 Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 : Alkyl ether Pimephales promelas (fathead minnow) 75,200 mg/l 96 h LC50 : 48 h LC50 Leuciscus idus (Golden orfe) > 10,000 mg/l 1 24 h EC50 Daphnia magna (Water flea) > 10,000 mg/l Copper compound 96 h LC50 Oncorhynchus mykiss (rainbow trout) 355.6 mg/l : 72 h ErC50 Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test : Guideline 201 48 h EC50 Daphnia magna (Water flea) > 500 mg/l Directive 67/548/EEC, Annex : V, C.2. Cyclic amide 72 h ErC50 Desmodesmus subspicatus (green algae) > 500 mg/l Daphnia magna (Water flea) > 500 mg/l Directive 67/548/EEC, Annex 48 h EC50 : V, C.2. **Environmental Fate** Ethane-1,2-diol Biodegradability Readily biodegradable. 90 - 100 % OECD Test Guideline 301 : Bioaccumulation Bioaccumulation is unlikely. Alkyl ether Biodegradability 90 % : Readily biodegradable. Bioaccumulation Bioconcentration factor (BCF) : 10 - 180 : Bioaccumulation is unlikely. Cyclic amide Biodegradability Biodegradable 2 Readily biodegradable. 9/11

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Bioaccumulation	: Bioaccumulation is unlikely.	
SECTION 13. DISPOSAL CONS	IDERATIONS	
Waste Disposal	: If recycling is not practicable, dispose of in compliance with local regulations. Never place unused product down any indoor or out door drain.	
Container Disposal	 Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards. 	
SECTION 14. TRANSPORT INFORMATION Not classified as dangerous in the meaning of transport regulations.		
SECTION 15. REGULATORY INFORMATION		
TSCA	: On the inventory, or in compliance with the inventory	
SARA 313 Regulated Chemical(s)	: Ethane-1,2-diol	
CERCLA Reportable Quantity	: 29 lbs Based on the percentage composition of this chemical in the product.: Copper compound	
California Prop. 65	 WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer. WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 	
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PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Ethane-1,2-diol, Alkyl ether, Cyclic amide
NJ Right to Know Regulated Chemical(s)	: Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Ethane-1,2-diol, Copper compound

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SECTION 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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