

GENUINE DTG CLEANING SOLUTION

Version 2.0

Revision Date 08/14/2014

Ref. 130000123071

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 : GENUINE DTG CLEANING SOLUTION
MSDS Number : 130000123071
Product Use : Printing ink
Manufacturer/Distributor : Colman & Company, Inc.
5409 S West Shore Blvd
Tampa FL 33611
Product Information : 1-800-891-1094
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects
Skin : Causes skin irritation.
Eyes : Causes eye irritation.
Inhalation : Causes: Respiratory irritation
Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Repeated exposure : Kidney damage, Liver effects, altered blood chemistry
Target Organ : Kidney, Liver, Respiratory Tract
Carcinogenicity
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Aliphatic alcohol		<10 %
Ethane-1,2-diol	107-21-1	<10 %
Non regulated ingredients		>80%

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.

SECTION 5. FIREFIGHTING MEASURES

- Flammable Properties
- Flash point : > 93.34 °C (200.01 °F)
Method : closed cup

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- 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 RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE 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.

SECTION 7. HANDLING AND STORAGE

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- Handling (Personnel) : Avoid breathing vapours or mist. Keep away from heat and flame. Do not use in areas without adequate ventilation.
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing and protective equipment before entering eating areas. Remove and wash contaminated clothing before re-use.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition. Avoid formation of aerosol.
- Storage : Store at room temperature in the original container. Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container.
Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Local exhaust or a laboratory hood should be used when handling the materials. Maintain air concentrations below occupational exposure standards.
- Personal protective equipment
 - Respiratory protection : Provide adequate ventilation.
 - Hand protection : Material: Impervious gloves
 - Eye protection : Wear safety glasses with side shields.

Exposure Guidelines
Exposure Limit Values

Ethane-1,2-diol			
TLV	(ACGIH)	100 mg/m3	TLV-C Aerosol.
AEL *		10 mg/m3	8 & 12 hr. TWA Particulate.
AEL *		50 ppm	8 & 12 hr. TWA Vapor.

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TLV	(ACGIH)	100 mg/m ³	TLV-C Aerosol.
AEL *		10 mg/m ³	8 & 12 hr. TWA Particulate.
AEL *		50 ppm	8 & 12 hr. TWA Vapor.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: light yellow
Odor	: slight
pH	: 8.5
Density	: 1.1 g/cm ³
Water solubility	: miscible

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Hazardous decomposition products	: no data available:
Hazardous reactions	: None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

Aliphatic alcohol	
Dermal LD50	: 20,800 mg/kg , Rabbit
Oral LD50	: 20,000 mg/kg , Rat
Inhalation 4 h LC50	: > 5 mg/l , Rat

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Skin irritation	:	slight irritation, Rabbit
Eye irritation	:	slight irritation, Rabbit
Skin sensitization	:	Patch test on human volunteers did not demonstrate sensitisation properties., human
Carcinogenicity	:	Not classifiable as a human carcinogen. Did not show carcinogenic effects in animal experiments.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments. Did not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in cultured bacterial cells.
Reproductive toxicity	:	No toxicity to reproduction Evidence suggests the substance is not a reproductive toxin in animals.
Teratogenicity	:	Did not show teratogenic effects in animal experiments.

Ethane-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.

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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.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Aliphatic alcohol

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) 51,600 mg/l
- 96 h EC50 : Pseudokirchneriella subcapitata (green algae) 19,000 mg/l
- 48 h LC50 : Daphnia magna (Water flea) 43,500 mg/l

Ethane-1,2-diol

- 96 h LC50 : Pimephales promelas (fathead minnow) 72,860 mg/l
- 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

Environmental Fate

Aliphatic alcohol

- Biodegradability : 79 %
Readily biodegradable.
- Bioaccumulation : Bioconcentration factor (BCF) : 1.4
Bioaccumulation is unlikely.

Ethane-1,2-diol

- Biodegradability : Readily biodegradable. 90 - 100 % OECD Test Guideline 301
- Bioaccumulation : Bioaccumulation is unlikely.

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SECTION 13. DISPOSAL CONSIDERATIONS

- 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
Ethane-1,2-diol
- CERCLA Reportable Quantity : 100,503 lbs
Based on the percentage composition of this chemical in the product.:
Ethane-1,2-diol
- California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known
- PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at

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Regulated Chemical(s)	<p>a concentration of 1% or more (0.01% for Special Hazardous Substances): Ethane-1,2-diol , Aliphatic alcohol</p> <p>Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Propane-1,2-diol , Ethane-1,2-diol</p>
NJ Right to Know Regulated Chemical(s)	<p>: 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 , Aliphatic alcohol</p> <p>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): Propane-1,2-diol , Ethane-1,2-diol</p>

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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