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

Product name Product Use	: M-DTG-M-1L : Printing ink
Restrictions on use Manufacturer/Supplier	 Do not use product for anything outside of the above specified uses. The M&R Companies Telephone + (800) 736-6431 440 Medinah Road Roselle, IL 60172, USA
EMERGENCY TELEPHONE N	IUMBER
-Emergency Number(s): Wit	[.] Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call Chemtrec hin US and Canada: +1 (800) 424-9300 Outside US and Canada: +1 (703) 741-5970
TION 2. HAZARDS IDEN	TIFICATION
Product hazard category Specific target of repeated exposu	rgan toxicity - Category 2
_abel content	·
Pictogram	
	· · · · · · · · · · · · · · · · · · ·
Signal word	: Warning
Signal word Hazardous warnings	 Warning May cause damage to organs through prolonged or repeated exposure.
-	-



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Hazardous prevention measures		Get medica	athe dust/ fume/ gas/ mist/ vapours/ spray. I advice/ attention if you feel unwell. contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 51.364 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Ethane-1,2-diol	107-21-1	1 - 5 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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SECTION 4. FIRST AID MEASURES General advice : Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice. Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Get medical attention. Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/ attention. Ingestion : If swallowed, call a poison control centre or doctor immediately. Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. 2/10

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Most important symptoms/effects, acute and delayed		: No applicable data ava	ilable.
Protection of first-aiders Notes to physician		No applicable data avaNo specific intervention	ilable. h is indicated. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	 Use extinguishing measures that are appropriate to local circumstances an the surrounding environment. Water spray, Dry chemical, Carbon dioxide (CO2) 	d
Unsuitable extinguishing media	No applicable data available.	
Specific hazards	: Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.	
Special protective equipment for firefighters	: Exposure to decomposition products may be a hazard to health. Wear self contained breathing apparatus for firefighting if necessary.	<u>.</u>
Further information	: Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.	

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.
Environmental precautions	 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.
Spill Cleanup	: Contain spill. Soak up with inert absorbent material. Collect and contain
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	contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Accidental Release Measures	: Dispose of in accordance with local regulations.
ECTION 7. HANDLING AND S	ORAGE
Handling (Personnel)	 Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. For personal protection see section "Exposure controls/personal protection" Handle in accordance with good industrial hygiene and safety practice. Keep container closed. Keep away from food and drink. Wash hands before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before re-use.
Handling (Physical Aspects)	: Normal measures for preventive fire protection.
Dust explosion class Storage	 No applicable data available. Keep containers tightly closed in a cool, well-ventilated place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Do not reuse empty container. Stable under normal conditions.
Storage period	: No applicable data available.
Storage temperature	: No applicable data available.
ECTION 8. EXPOSURE CONTI	ROLS/PERSONAL PROTECTION
Engineering controls	: Ensure adequate ventilation. Maintain air concentrations below occupational exposure standards. General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.
Personal protective equipmer Respiratory protection	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to
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			nine the appropriate type of equipment for a given application. Observe ator use limitations specified by the manufacturer.
Hand protection		Addition be dis chemi depen one pr from the observe are pr specif	al: Impervious gloves onal protection: Gloves must be inspected prior to use., Gloves should carded and replaced if there is any indication of degradation or cal breakthrough., The choice of an appropriate glove does not only d on its material but also on other quality features and is different from roducer to the other., The exact break through time can be obtained he protective glove producer and this has to be observed., Please ve the instructions regarding permeability and breakthrough time which ovided by the supplier of the gloves. Also take into consideration the ic local conditions under which the product is used, such as the danger as, abrasion, and the contact time.
Eye protection		: Wear	safety glasses or coverall chemical splash goggles.
Skin and body protecti	ion	amoui	e body protection in relation to its type, to the concentration and nt of dangerous substances, and to the specific work-place. reight protective clothing and safety shoes are recommended.
Exposure Guidelines Exposure Limit Values	;		

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical state Form Color	: liquid : liquid : pink
Odor	: acrylic-like
Odor threshold	: No applicable data available.
рН	: 8.2
Melting point/range	: No applicable data available.
Boiling point/boiling range	: Boiling point

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	no data available
Flash point	: > 93 °C Method: Pensky-Martens closed cup - PMCC
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Density	: 1.1 g/cm3
Specific gravity (Relative density)	: No applicable data available.
Water solubility	: dispersible
Solubility(ies)	: No applicable data available.
Partition coefficient: n- octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: 11 mPa.s at 32 °C (90 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	 The product is chemically stable under recommended conditions of storage, use and temperature. Stable at normal temperatures and storage conditions.
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Possibility of hazardous reactions Conditions to avoid		reasonably foreseeable.
Incompatible materials		, bases and strong oxidizing agents
Hazardous decomposition products	Unde	ecomposition if stored and applied as directed. r fire conditions:, Carbon monoxide, carbon dioxide and unburned carbons (smoke).
SECTION 11. TOXICOLOGICA	AL INFORMA	TION
Further informatio	in :	There is no data available for this product.
Ethane-1,2-diol Inhalation	:	no data available
Inhalation 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 to	exicity :	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 toxic	city :	No toxicity to reproduction
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	No effects on or via lactation Animal testing showed no reproductive toxicity.
Teratogenicity	: Evidence suggests the substance is not a developmental toxin in animals.
to HazCom 2012, Appe Program (NTP) Report International Agency for	esifications for this product and/or its ingredients have been determined according ndix A.6. The classifications may differ from those listed in the National Toxicology on Carcinogens (latest edition) or those found to be a potential carcinogen in the Research on Cancer (IARC) Monographs (latest edition). s present in this material at concentrations equal to or greater than 0.1% are listed A, as a carcinogen.
SECTION 12. ECOLOGICAL INF	ORMATION
Aquatic Toxicity Ethane-1,2-diol 96 h LC50	: Pimephales promelas (fathead minnow) 72,860 mg/l
Ethane-1,2-diol	 Pimephales promelas (fathead minnow) 72,860 mg/l Pseudokirchneriella subcapitata (green algae) 6,500 mg/l
Ethane-1,2-diol 96 h LC50	
Ethane-1,2-diol 96 h LC50 96 h ErC50	: Pseudokirchneriella subcapitata (green algae) 6,500 mg/l
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50	: Pseudokirchneriella subcapitata (green algae) 6,500 mg/l
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50 Environmental Fate Ethane-1,2-diol	 Pseudokirchneriella subcapitata (green algae) 6,500 mg/l Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50 Environmental Fate Ethane-1,2-diol Biodegradability	 Pseudokirchneriella subcapitata (green algae) 6,500 mg/l Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 Readily biodegradable. 90 - 100 % OECD Test Guideline 301 Bioaccumulation is unlikely.
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50 Environmental Fate Ethane-1,2-diol Biodegradability Bioaccumulation Additional ecological informa	 Pseudokirchneriella subcapitata (green algae) 6,500 mg/l Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 Readily biodegradable. 90 - 100 % OECD Test Guideline 301 Bioaccumulation is unlikely. There is no data available for this product.
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50 Environmental Fate Ethane-1,2-diol Biodegradability Bioaccumulation	 Pseudokirchneriella subcapitata (green algae) 6,500 mg/l Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 Readily biodegradable. 90 - 100 % OECD Test Guideline 301 Bioaccumulation is unlikely. There is no data available for this product.
Ethane-1,2-diol 96 h LC50 96 h ErC50 48 h EC50 Environmental Fate Ethane-1,2-diol Biodegradability Bioaccumulation Additional ecological informa SECTION 13. DISPOSAL CONSI Waste disposal methods -	 Pseudokirchneriella subcapitata (green algae) 6,500 mg/l Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 Readily biodegradable. 90 - 100 % OECD Test Guideline 301 Bioaccumulation is unlikely. tion : There is no data available for this product. DERATIONS If recycling is not practicable, dispose of in compliance with local regulations.

Dispose of container properly. Revision Date Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards. Contaminated packaging Contaminated packaging No applicable data available. SECTION 14. TRANSPORT INFORMATION SECTION 15. REGULATORY INFORMATION TSCA On the inventory, or in compliance with the inventory SARA 311/312 Hazard California Prop. 65 California to cause birth defects or other reproductive harm. For more information go to www.P05Warnings.ca.gov. SECTION 16. OTHER INFORMATION The DuPont Vo. al Logo, DuPont™ and all products denoted with ® or ™ are trademarks or registered trademarks of E. du Pont de Nemours and Company or its atfiliates unless otherwise indicated. SECTION 16. OTHER INFORMATION The DuPont Ovai Logo, DuPont™ and all products denoted with ® or ™ are trademarks or registered trademarks of E. du Pont de Nemours and Company or its atfiliates unless otherwise indicated. Issue Date :: 09/27/2018 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the unformation provided in this Safety Data Sheet is correct to the best of our knowl	Safety Data Sheet	TAR.
Version 3.0 Issue Date ::::::::::::::::::::::::::::::::::::		The M&R Companies
Issue Date :: 09/01/2018 Ref. 130000138907 Revision Date :: 08/27/2018 Dispose of container property. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards. Contaminated packaging :: No applicable data available. SECTION 14. TRANSPORT INFORMATION Not classified as dangerous in the meaning of transport regulations. SECTION 15. REGULATORY INFORMATION TSCA :: TSCA :: SARA 311/312 Hazard : SARA 311/312 Hazard : SARA 313 Regulated :: Claironia Prop. 65 :: This product can expose you to Ethane-1,2-diol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. SECTION 16. OTHER INFORMATION The DuPont Oval Logo, DuPont™ and all products denoted with ® or ™ are trademarks or registered trademarks of Et du Pont de Nemours and Company or its affiliales unless otherwise indicated. Issue Date :: : Issue Date :: : Refer to : : The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the	A!8H;!A!%@	
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