

Safety Data Sheet

Material Name: TROY Group Inkjet Ink – Black MICR

SDS ID: SDS-MC9364W-O98-100

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

TROY Group Inkjet Ink - Black

Chemical Family

water based pigment/dye/ink

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

TROY Group Inc.

3 Bryan Drive

Wheeling, WV 26003 USA

Phone: (304) 232-0899

Emergency Phone #: CHEMTREC (800) 424-9300, CHEMTREC International (703) 527-3887

E-mail: customerservice@troygroup.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Eye Irritation - Category 1

GHS Label Elements

Symbol(s)

None

Signal Word

None

Hazard Statement(s)

Causes eye irritation

Precautionary Statement(s)

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage

Store locked up

Safety Data Sheet

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SDS ID: SDS-MC9364W-O98-100

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
-	Proprietary dyes and pigments	<25%
56-81-5	Glycerin	5 - 10
616-45-5	2-Pyrrolidinone	5-10
57-55-6	1,2-Propylene glycol	2-10
7732-18-5	Water	75-92

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

Causes eye irritation.

Delayed

None

Section 5 - FIRE FIGHTING MEASURES

Notes

Safety Data Sheet

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No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H)

Extinguishing Media

Suitable Extinguishing Media

Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

Large fires: Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Not applicable

Hazardous Combustion Products

None

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Stop leak if safe to do so. Do not touch or walk through spilled material. Wipe up with absorbent material (eg. cloth, fleece). Collect spilled material in appropriate container for disposal. Dispose in accordance with all applicable regulations. Clean contaminated surface thoroughly.

Environmental Precautions

Avoid release to the environment. Collect spillage. Prevent environmental discharge consistent with regulatory requirements.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep out of reach of children.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up

Store in a well-ventilated place. Keep container tightly closed. Avoid extreme heat and cold.

Incompatible Materials

Oxidizing agents

Safety Data Sheet

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Glycerin	56-81-5
OSHA (US):	15 mg/m ³ TWA mist, total particulate; 5 mg/m ³ TWA mist, respirable fraction
Mexico:	10 mg/m ³ TWA LMPE-PPT mist

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide for sufficient ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Safety glasses or goggles are recommended when ink is exposed from cartridge.

Skin Protection

Not required.

Respiratory Protection

Respiratory protection is not required under normal conditions of use.

Glove Recommendations

When ink is exposed from cartridge, wear protective gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	black liquid	Physical State	liquid
Odor	slight odor	Color	Black
Odor Threshold	Not available	pH	6.5 - 9
Melting Point	Not available	Boiling Point	100 °C (approximate)
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	>110 °C
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available

Safety Data Sheet

Material Name: TROY Group Inkjet Ink – Black MICR

SDS ID: SDS-MC9364W-O98-100

Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	2 - 10 cps	Solubility (Other)	Not available
Density	1 - 1.1 (relative)		

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Oxidizing agents

Hazardous decomposition products

None

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Not available

Skin Contact

May cause mild skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

Safety Data Sheet

Material Name: TROY Group Inkjet Ink – Black MICR

SDS ID: SDS-MC9364W-O98-100

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Glycerin (56-81-5)

Oral LD50 Rat 12600 mg/kg

Dermal LD50 Rabbit >10 g/kg

Inhalation LC50 Rat >570 mg/m³ 1 h

1,2-Propanediol (57-55-6)

Oral LD50 Rat 20 g/kg

Dermal LD50 Rabbit 20800 mg/kg

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Immediate Effects

Causes serious eye irritation.

Delayed Effects

None

Irritation/Corrosivity Data

Causes serious eye irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

This product has not been tested for ecological effects.

Safety Data Sheet

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Component Analysis - Aquatic Toxicity

2-Pyrrolidinone	616-45-5
Fish:	LC50 96 h Brachydanio rerio 4600 - 10000 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 250 mg/L IUCLID; EC50 96 h Desmodesmus subspicatus 84 mg/L IUCLID
1,2-Propanediol	57-55-6
Fish:	LC50 96 h Oncorhynchus mykiss 51600 mg/L [static]; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static]; LC50 96 h Pimephales promelas 51400 mg/L [static]; LC50 96 h Pimephales promelas 710 mg/L
Algae:	EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L [static] EPA

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated as dangerous goods.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

Safety Data Sheet

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SDS ID: SDS-MC9364W-O98-100

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Glycerin	56-81-5	No	Yes	Yes	Yes	Yes
2-Pyrrolidinone	616-45-5	No	Yes	No	No	Yes
1,2-Propanediol	57-55-6	No	No	Yes	Yes	Yes

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

1,2-Propanediol	57-55-6
	1 %

Component Analysis - Inventory

Glycerin (56-81-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

2-Pyrrolidinone (616-45-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

1,2-Propanediol (57-55-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW

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Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes
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Section 16 - OTHER INFORMATION

HMIS Rating

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: July 20, 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

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