

SAFETY DATA SHEET

Issuing Date 08-Jul-2015

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Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name All-Purpose Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use For consumer use in arts and crafts. Not intended for use on skin. Should not be intentionally ingested or inhaled.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Dharma Trading Company
Supplier Address 1805 South McDowell Blvd.
Ext. Petaluma, CA 94954
USA

Emergency telephone number
Not Available

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Carcinogenicity (See note on carcinogenicity in Section 11)	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger

Hazard Statements

May cause cancer (See note on carcinogenicity in Section 11)
May cause damage to organs through prolonged or repeated exposure

**Appearance** Liquid**Physical state** Liquid**Odor** No information available**Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

Up to 25% of the mixture may consist of ingredient(s) of unknown toxicity

Other information

May be harmful if swallowed
Some components may be very toxic to aquatic life with long lasting effects

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
TRADE SECRET	TRADE SECRET	10 - 30	*
TRADE SECRET	TRADE SECRET	10 - 30	*
TRADE SECRET	TRADE SECRET	7 - 13	*
TRADE SECRET	TRADE SECRET	5 - 10	*
TRADE SECRET	TRADE SECRET	5 - 10	*
TRADE SECRET	TRADE SECRET	5 - 10	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	1 - 5	*
TRADE SECRET	TRADE SECRET	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice

Show this safety data sheet to the doctor in attendance.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact

Wash with soap and water.

Inhalation

Remove to fresh air.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Coughing and/ or wheezing. Itching.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TRADE SECRET	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
TRADE SECRET	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
TRADE SECRET	TWA: 1 mg/m ³ respirable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ Al Aluminum	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
TRADE SECRET	TWA: 3 mg/m ³	TWA: 20 mppcf (<1% crystalline silica) 3 mg/m ³ (vacated)	IDLH: 1500 mg/m ³ containing <1% quartz TWA: 3 mg/m ³ respirable dust
TRADE SECRET	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
TRADE SECRET	TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ fume and total dust Iron oxide (vacated) TWA: 5 mg/m ³ respirable fraction regulated under Rouge	IDLH: 2500 mg/m ³ Fe dust and fume TWA: 5 mg/m ³ Fe dust and fume
TRADE SECRET	TWA: 1 fiber/cm ³ respirable fibers: length >5 μm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable fraction		
TRADE SECRET	10 mg/m ³	20 mppcf TWA; ((80)/(%) SiO ₂) mg/m ³	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
TRADE SECRET	-	-	IDLH: 5000 mg/m ³
TRADE SECRET	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
TRADE SECRET	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
TRADE SECRET	TWA: 0.1 mg/m ³ dust and fume	TWA: 0.01 mg/m ³ (vacated) TWA: 0.01 mg/m ³	IDLH: 10 mg/m ³ dust TWA: 0.01 mg/m ³ dust
TRADE SECRET	TWA: 0.02 mg/m ³ Co	-	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid	Odor	No information available
Appearance	Liquid	Odor Threshold	No information available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	UNKNOWN	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	1	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
TRADE SECRET	> 10000 mg/kg (Rat)	-	-
TRADE SECRET	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
TRADE SECRET	-	> 10 g/kg (Rabbit)	-
TRADE SECRET	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
TRADE SECRET	> 10000 mg/kg (Rat)	-	-
TRADE SECRET	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
TRADE SECRET	> 10000 mg/kg (Rat)	-	-
TRADE SECRET	> 3000 mg/kg (Rat)	-	-
TRADE SECRET	> 2000 mg/kg (Rat)	-	-
TRADE SECRET	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	-
TRADE SECRET	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.83 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Note that as formulated, this product is unlikely to pose a carcinogenicity hazard for the following reasons:

- Certain compounds are carcinogenic by the inhalation pathway but as formulated in this product, these compounds are not inhalable;
- Certain compounds may be carcinogenic by exposure routes that will not occur under conditions of commercial or personal use;
- Certain compounds have not been shown to be carcinogenic in humans or animals but are members of a class of compounds that may include one or more carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
TRADE SECRET		Group 2B		X
TRADE SECRET	A3	Group 2B		X
TRADE SECRET		Group 3		
TRADE SECRET		Group 3		
TRADE SECRET		Group 1	Known	X
TRADE SECRET		Group 3		
TRADE SECRET		Group 1	Known	X
TRADE SECRET	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure

No information available.
 No information available.
 Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

Chronic Toxicity

No known effect based on information supplied. Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Carbon black has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Target Organ Effects

Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).

Aspiration Hazard

No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
 2,593.00 mg/kg
ATEmix (dermal)
 33,472.00 mg/kg (ATE)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Some components may be very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
TRADE SECRET	96h EC50: = 19000 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41 - 47 mL/L (Oncorhynchus mykiss) 96h LC50: = 51400 mg/L (Pimephales promelas) 96h LC50: = 710 mg/L (Pimephales promelas)	-	24h EC50: > 10000 mg/L 48h EC50: > 1000 mg/L
TRADE SECRET		96h LC50: 51 - 57 mL/L (Oncorhynchus mykiss)		24h EC50: > 500 mg/L
TRADE SECRET				24h EC50: > 5600 mg/L
TRADE SECRET	72h EC50: = 440 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 5000 mg/L (Brachydanio rerio)		48h EC50: = 7600 mg/L
TRADE SECRET		48h LC50: > 100 mg/L (Oryzias latipes)		
TRADE SECRET		96h LC50: = 752.4 mg/L (Lepomis macrochirus)	EC50 > 10000 mg/L 30 min	24h EC50: > 500 mg/L
TRADE SECRET		96h LC50: = 0.064 mg/L (Lepomis macrochirus) 96h LC50: = 0.0062 mg/L (Oncorhynchus mykiss) 96h LC50: 0.00155 - 0.00293 mg/L (Pimephales promelas)		48h EC50: = 0.00024 mg/L
TRADE SECRET		96h LC50: = 75200 mg/L (Pimephales promelas)	EC50 = 29228 mg/L 15 min	48h EC50: = 84000 mg/L
TRADE SECRET	72h EC50: = 88 mg/L (Pseudokirchneriella subcapitata)	96h LC50: > 136 mg/L (Brachydanio rerio)		48h EC50: > 136 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
TRADE SECRET	-1.76
TRADE SECRET	6.6
TRADE SECRET	-1.98

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Do not reuse empty containers.

US EPA Waste Number D011

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
TRADE SECRET		Included in waste stream: F039	5.0 mg/L regulatory level	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
TRADE SECRET	Ignitable powder
TRADE SECRET	Toxic
TRADE SECRET	Toxic
TRADE SECRET	Toxic
TRADE SECRET	Toxic

14. TRANSPORT INFORMATION

DOT
Proper Shipping Name NOT REGULATED
Hazard Class NON REGULATED
 N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA
Proper Shipping Name Not regulated
Hazard Class NON REGULATED
 N/A

IMDG/IMO
Hazard Class Not regulated
 N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
TRADE SECRET	TRADE SECRET	5 - 10	1.0
TRADE SECRET	TRADE SECRET	1 - 5	1.0
TRADE SECRET	TRADE SECRET	1 - 5	1.0
TRADE SECRET	TRADE SECRET	1 - 5	1.0
TRADE SECRET	TRADE SECRET	0.1 - 1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard No
 Chronic Health Hazard Yes
 Fire Hazard No
 Sudden release of pressure hazard No
 Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TRADE SECRET		X		
TRADE SECRET		X		
TRADE SECRET		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
TRADE SECRET	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
TRADE SECRET	Carcinogen
TRADE SECRET	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
TRADE SECRET	X	X	X		
TRADE SECRET	X		X		
TRADE SECRET	X	X	X	X	
TRADE SECRET	X	X	X	X	
TRADE SECRET	X	X	X		X
TRADE SECRET	X	X	X		
TRADE SECRET	X	X	X		
TRADE SECRET	X	X	X		
TRADE SECRET	X	X	X	X	
TRADE SECRET			X	X	X
TRADE SECRET			X	X	X

International Regulations

Mexico – National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Titanium dioxide 13463-67-7 (10 - 30)		Mexico: TWA= 10 mg/m ³ Mexico: STEL= 20 mg/m ³
Glycerin 56-81-5 (7 - 13)	-	10mg/m ³ (mist) TWA
Aluminum 7429-90-5 (5 - 10)		Mexico: TWA= 10 mg/m ³
Mica 12001-26-2 (5 - 10)		Mexico: TWA= 3 mg/m ³
Carbon black 1333-86-4 (5 - 10)		Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³
Iron oxide 1309-37-1 (1 - 5)		Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³
Rutile (TiO2) 1317-80-2 (1 - 5)		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
Silver 7440-22-4 (1 - 5)		Mexico: TWA 0.1 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	Health Hazards 0	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 1*	Flammability 0	Physical Hazard 0	Personal Protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

Revision Date 08-Jul-2015
Revision Note No information available
Disclaimer

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

End of Safety Data Sheet