

# **SAFETY DATA SHEET**

### **SECTION 1. IDENTIFICATION**

### **PRODUCT IDENTIFIER**

Product Code GLE-1120 Product Name WHITE

Product Category GLOSS ENAMEL INK (GLE)

## RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use PRINTING OPERATION

## **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

Inktech International Corporation 160 Fenmar Drive, Toronto, Ontario M9L 1M6

Tel: 1-416-743-4111 Fax: 1-416-743-1511

## **EMERGENCY TELEPHONE NUMBER**

Chemtrec 1-613-996-6666

### **SECTION 2. HAZARDS IDENTIFICATION**

### **CLASSIFICATION**

Aspiration Toxicity	Category 1 (H304)
Flammable Liquid	Category 4 (H227)

#### **LABEL ELEMENTS**



SIGNAL WORD: DANGER

## **HAZARD STATEMENTS**

H304 May be fatal if swallowed and enters airways

H227 Combustible liquid

### PRECAUTIONARY STATEMENTS

P331 – Do not induce vomiting

P210 – Keep away from heat/ sparks/open flames/ hot surfaces – No smoking.

P280 – Wear protective gloves/eye protection/ face protection.

### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

May be harmful in contact with skin.

Ingestion may cause irritation of mouth, throat and stomach. May cause respiratory irritation. Contact with eyes may cause irritation.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Mixture:

COMPONENTS	WEIGHT %	CAS NO	NOTE
HYDROTREATED LIGHT DISTILLATE	10-30	34742-47-8	
TITANIUM DIOXIDE	10-30	13463-67-7	
SILICON DIOXIDE	1-5	7631-86-9	
ALUMINUM HYDROXIDE	1-5	21645-51-2	
BARRIUM SULFATE	10-30	7727-43-7	
ETHYL BENZENE (CONSTITUENT)	<0.50	34742-47-8	
COBALT COMPOUNDS	<0.50	TRADE SECRET	

### **SECTION 4. FIRST AID MEASURES**

#### **DESCRIPTION OF FIRST AID MEASURES**

#### **General Advice**

Show this safety data sheet to the doctor in attendance.

#### **Eve Contact**

Immediately flush with plenty of water. After flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

#### **Skin Contact**

Wash immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation such as redness, rash, blistering develops, get medical attention.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

#### Ingestion

Do Not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control immediately.

### MOST IMPORTANT SYMPTOMS AND EFECTS, BOTH ACCUTE AND DELAYED

Aspiration Hazard – Material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Direct eye contact may cause temporary redness, ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May have laxative effects.

#### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Notes to Physician: Treat symptomatically. Aspiration hazard.

### **SECTION 5. FIRE FIGHTING PROCEDURE**

## **SUITABLE EXTINGUISHING MEDIA**

Foam, Carbon Dioxide (CO2), Dry chemical, and Water Spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **UNSUITABLE EXTINGUISHING MEDIA:**

Do not use a solid water stream as it may scatter and spread fire.

## SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

#### 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. Cool containers/ tanks with water spray. Sealed containers may rupture when heated.

### **SECTION 6. ACCIDENTAL RELEASE MEASURE**

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### **Personal Precautions**

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin, and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from upwind of spill/leak.

#### **Environmental Precautions**

Prevent products from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches. Local authorities should be notified if significant spillages cannot be contained.

### Methods and Material for Containment and Cleanup

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

## **SECTION 7. HANDLING AND STORAGE**

#### PRECAUTIONS FOR SAFE HANDLING

### Handling

Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Ensure adequate ventilation.

#### CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITES

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of reach of children.

## **Incompatible Products**

Strong acids, strong bases, strong oxidizing and reducing agents.

#### SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

## **CONTROL PARAMETERS**

### **Exposure Limits**

Component	ACGIH TLV	OSHA PEL
Hydrotreated Light Distillate 64742-47-8	TWA: 200 mg/m <sup>3</sup> (as total hydrocarbon vapor)	PEL- N/A STEL- N/A
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m³ (total dust) TWA: 15 mg/m³ (total dust)
Barium Sulfate 7727-43-7	TWA: 10 mg/m³	TWA: 10 mg/m³ (total dust) TWA: 15 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction)
Ethyl Benzene (constituent) 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL 545 mg/m³
Silicon Dioxide 7631-86-9		TWA: 6 mg/m <sup>3</sup>

Component	Ontario TWAEV	Mexico OEL (TWA)
Titanium Dioxide	TWA: 10 mg/m³ (total dust)	TWA/LMPE-PPT: 10 mg/m³ (as Ti)
13463-67-7		STEL/LMPE-CT: 20 mg/m³ (as Ti)
Barium Sulfate	TWA: 10 mg/m³ (total dust)	
7727-43-7		
Ethyl Benzene (constituemt)	TWA: 100 ppm	TWA/LMPE-PPT: 100 ppm
100-41-4	STEL: 125 ppm	TWA/LMPE-PPT: 435 mg/m <sup>3</sup>
		STEL/LMPE-CT: 125 ppm
		STEL/LMPE-CT: 545 mg/m <sup>3</sup>

## **APPROPRIATE ENGINEERING CONTROLS**

#### **Engineering Measures**

Provide a good standard of general ventilation. Natural ventilation is from doors, windows, etc. Controlled ventilation means air is supplied or removed by powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

## INDIVIDUAL PROTECTION MEASURES SUCH AS PERSONAL PROTECTIVE EQUIPMENT

#### **Eye /Face Protection:**

Wear safety glasses with side shields (or goggle). If splashes are likely to occur, wear suitable face shield. Ensure the eye wash stations and safety showers are close to the workstation location.

#### Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent contact.

### **Respiratory Protection:**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

## **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### Information on Basic Physical and Chemical Properties

Physical StateLiquidAppearanceColored LiquidOdorMild Petroleum OdorOdor ThresholdNo information Available

Property PH	<u>Values</u>	Remarks/ Method No Data Available
Melting Point/ Freezing Point		No Data Available
Boiling Point/ Boiling Range	< 149 °C/ 300 °F	
Flash Point	46 °C/115°F	Seta Closed Cup
Evaporation Rate		No Data Available
Flammability Limit in Air	10.50/	
Upper Flammability Limit (% vol)	10.5 % 1.5 %	
Lower Flammability Limit (% vol) Vapor Pressure	1.5 %	No Data Available
Vapor Density	4.5 (Air=1)	No Data Available
Specific Gravity	1.34	
Water Solubility		No Data Available
Solubility in Other Solvents		No Data Available
Partition Coefficient: N-Octanol/ Water		No Data Available
Auto Ignition Temperature		No Data Available
Decomposition Temperature		No Data Available
Kinetic Viscosity		No Data Available
Dynamic Viscosity		No Data Available
Explosive Property		No Data Available
Oxidizing Property		No Data Available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity Chemical Stability

Not normally reactive Stable under normal condition

Possibility of Hazardous Reactions Conditions to Avoid

None under normal processing Keep away from open flames, hot surfaces and sources of ignition

**Incompatible Materials** 

Strong acids, strong bases, reducing agent.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors, Carbon Dioxide (CO2), Carbon Monoxide.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on Likely Routes of Exposure

InhalationNo information availableEye ContactNo information availableSkin ContactNo information availableIngestionNo information available

Component	CAS No.	Oral LD50
Hydrotreated Light Distillate	64742-47-8	>5000 mg/kg (Rat)
Titanium Dioxide	13463-67-7	>10000 mg/kg (Rat)
Aluminum Hydroxide	21645-15-2	>5000 mg/kg (Rat)
Silicon Dioxide	7631-869	>5000 mg/kg (Rat)
Ethyl Benzene (constituent )	100-41-4	3500 mg/kg (Rat)

Component	CAS No.	LD50 Dermal
Hydrotreated Light Distillate	64742-47-8	>2000 mg/kg (Rabbit)
Silicon Dioxide	7631-869	>2000 mg/kg (Rabbit)
Ethyl Benzene (constituent)	100-41-4	15354 mg/kg (Rabbit)

Component	CAS No.	Inhalation LC50
Hydrotreated Light Distillate	64742-47-8	>6.03 mg/L (aerosol)
Silicon Dioxide	7631-869	>2.2 mg/L (Rat) 1h
Ethyl Benzene (constituent)	100-41-4	17.2 mg/L (Rat) 4h

#### Information on Toxicological Effects

**Symptoms** There is no data for this product.

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure.

Skin Corrosion/ Irritation Primary irritation (Rabbit): 1.2 (Max. score is 8.0)

Eye Damage/ Irritation Primary irritation (Rabbit): 1 hour; 3.0 (Max. score is 110.0)

Irritation There is no data for this product Corrositivity There is no data for this product. Sensitization There is no data for this product. Mutagenic Effects There is no data for this product. Reproductive Effects There is no data for this product. STOT – Single exposure There is no data for this product. STOT- Repeated Exposure There is no data for this product. Chronic Toxicity There is no data for this product.

Aspiration Hazard May be fatal if swallowed and enters airways.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as carcinogen.

Component	CAS No.	ACGIH	IARC	OSHA
Titanium Dioxide	13463-67-7	A3	Group 2B	X
Ethyl Benzene (cons.)	100-41-4		Group 2B	X
Cobalt Compounds			Group 2B	X

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Etoxicity:**

Not expected to harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for the substance's ecotoxicity. Do not allow this material to drain into sewers/water supplies.

Component	CAS No.	Toxicity to Algae
Hydrotreated Light Distillate	64742-47-8	N/A
Silicon Dioxide	7631-86-9	72 h EC50 Pseudokirchneriella Subcapitata: 440 mg/L
Ethyl Benzene	100-41-4	96 h EC50 Pseudokirchneriella Subcapitata: 1.7-7.6 mg/L (static) 72 h EC50 Pseudokirchneriella Subcapitata: 2.6-11.3 mg/L (static)
		72 h EC50 Pseudokirchneriella Subcapitata: 2.6-11.5 mg/L (static)
		96 h EC50 Pseudokirchneriella Subcapitata: >438 mg/L

Component	CAS No.	Toxicity to Fish
Hydrotreated Light Distillate	64742-47-8	96 h LC50 Fatheadminnow: 45 mg/L
Silicon Dioxide	7631-86-9	96 h LC50 Brachydario rerio: 5000 mg/L (static)
Ethyl Benzene (constituent)	100-41-4	96 h LC50 Oncorhynchus mykiss: 11.0-18.0 mg/L (static) 96 h LC50 Pimephales Promelas: 7.55-11 mg/L (flow through) 96 h LC50 Pimephales Promelas: 9.1-15.6 mg/L (static) 96 h LC50 Lepomis Macrochirus: 32 mg/L (static) 96 h LC50 Oncorhynchus mykiss: 4.2 mg/L (semi-static) 96 h LC50 Poecilia Reticulata: 9.6 mg/L (static)

Component	CAS No.	Toxicity to Crustacia
Silicon Dioxide	7631-86-9	48 h EC50 Ceriodaphnia Dubia: 7600 mg/L
Ethyl Benzene (constituent)	100-41-4	48 h EC50 Daphnia Magna 1.8-2.4 mg/L

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information Available

Component	CAS No.	Partition Coefficient
Hydrotreated Light Distillate	64742-47-8	5.1 – 8.8
Ethyl Benzene (constituent)	100-41-4	3.118

#### Other Adverse Effects: No information available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Waste Treatments Methods**

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **SECTION 14. TRANSPORT INFORMATION**

**DOT** In Canada and US, this material may be reclassified as a combustible liquid and is not regulated, via

Surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per

Transportation of Dangerous Goods Regulations/ Clear Language Part 1.33]

UN/ ID No. UN 1210 Proper Shipping name: Printing Ink

Hazard Class: 3 Packing Group: III

## ICAO/ IATA/ IMDG/ IMO

UN/ ID No. UN 1210 Proper Shipping name: Printing Ink

Hazard Class: 3 Packing Group: III

## **SECTION 15. REGULATORY INFORMATION**

### **International Inventories**

All Components are listed on the TSCA Inventory. For further information, please contact: Supplie.

## **US Federal Regulations**

### **SARA 313**

Section 313 of the 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.

Component	CAS NO.	Weight %	SARA 313- Threshold Value
Ethyl Benzene (constituent)	100-41-4	<0.5	0.1

# **U.S. State Regulations**

Component	CAS NO.	Massachusetts Right to Know
Hydrotreated Light Distillate	64742-47-8	Х
Titanium Dioxide	13463-67-7	Х
Silicon Dioxide	7631-86-9	X
Barium Sulfate	7727-43-7	Х
Ethyl Benzene (constituent)	100-41-4	Х

Component	CAS NO.	Minnesota Right to Know
Hydrotreated Light Distillate	64742-47-8	X
Titanium Dioxide	13463-67-7	X
Silicon Dioxide	7631-86-9	X
Barium Sulfate	7727-43-7	X
Ethyl Benzene (constituent)	100-41-4	X

Component	CAS NO.	New Jersey Right to Know
Hydrotreated Light Distillate	64742-47-8	X
Titanium Dioxide	13463-67-7	X
Silicon Dioxide	7631-86-9	X
Barium Sulfate	7727-43-7	X
Ethyl Benzene (constituent)	100-41-4	X
Cobalt Compounds		Х

Component	CAS NO.	Pennsylvania Right to Know
Hydrotreated Light Distillate	64742-47-8	X
Titanium Dioxide	13463-67-7	X
Silicon Dioxide	7631-86-9	X
Barium Sulfate	7727-43-7	X
Ethyl Benzene (constituent)	100-41-4	X
Cobalt Compounds		X

Component	CAS NO.	Rhode Island Right to Know
Hydrotreated Light Distillate	64742-47-8	X

Component	CAS NO.	California Right to Know
Hydrotreated Light Distillate	64742-47-8	X

# California Prop. 65

This product does not contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Component	California Prop. 65
Titanium Dioxide	Carcinogen
Ethyl Benzene (constituent)	Carcinogen

## Canada:

Component	NPRI – National Pollutant Release Inventory
Ethyl Benzene 100-41-4 (constituent)	Part 1, Group A Substance Part 4 Substance as set out in
	Section 65 of the list of Toxic Substances in Schedule 1 of
	The Canadian Environmental Act 1999.
Cobalt Compounds	Part 1, Group A Substance total of the pure element and the
·	Equivalent weight of the element contained in any
	Compound,

### **SECTION 16. OTHER INFORMATION**

HMISHealthFlammabilityReactivityPersonal Protection1\*20x

### Key or legend to abbreviations and acronyms used in safety data sheet.

Legend - Section 8: Exposure Controls/Personal Protection

TWA Time Weighted Average STEL Short Term Average Ceiling Maximum Limit Value

**ACGIH** American Conference of Governmental Industrial Hygienist

A1 Known Human Carcinogen A2 Suspended Human Carcinogen

A3 Animal Carcinogen

IARC International Agency for Research on Cancer

Group 1 Carcinogenic to Humans

Group 2A Probably Carcinogenic to Humans Group 2B Possibly Carcinogenic to Human

NTP National Toxicity Program

Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen

OSHA Occupational Health and Safety Administration

X Present

Date November 24, 2016

### **DISCLAIMER**

This 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 guide 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 SDS**