

# **SAFETY DATA SHEET**

### **SECTION 1. IDENTIFICATION**

# **PRODUCT IDENTIFIER**

Product Code GLV-2120

Product Name **EX-OPAQUE WHITE** 

Product Category GLOSS VINYL SERIES SCREEN INK (GLV)

# 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**

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# **EMERGENCY TELEPHONE NUMBER**

Chemtrec 1-613-996-6666

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

### **CLASSIFICATION**

Acute Toxicity - Inhalation	Category 4 - (H332)
Serious Eye Damage/Irritation	Category 2 - (H319)
Specific Target Organ Toxicity (Single Exposure)	Category 3 - (H335)
Flammable Liquid	Category 3 - (H226)

# LABEL ELEMENTS



# SIGNAL WORD: DANGER!

# **HAZARD STATEMENTS**

H332 Harmful if inhaled

H319 Causes serious eye irritation
H335 May cause respiratory irritation
H226 Flammable liquid and vapor

# PRECAUTIONARY STATEMENTS

P331 – Do not induce vomiting

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

### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

May be harmful in contact with skin.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture:

COMPONENTS	WEIGHT %	CAS NO	NOTE
TITANIUM DIOXIDE	10-30	13463-67-7	
ISOPHORONE	15-40	78-59-1	
PETROLEUM NAPHTHA, HEAVY AROMATIC	10-30	64742-94-5	
2-METHOXY-1-METHYL ETHYL ACETATE	7-13	108-65-6	
DIACETONE ALCOHOL	5-10	123-42-2	
ALUMINUM HYDROXIDE	1-5	21645-51-2	
SILICON DIOXIDE	1-5	7631-869	

### **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

None under normal use conditions.

# INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Notes to Physician: Treat symptomatically.

# **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:**

No information available.

### 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
Titanium Dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> (total dust)
13463-67-7		TWA: 15 mg/m³ (total dust)
Isophorone	Ceiling: 5 ppm	TWA: 4 ppm
78-59-1		TWA: 23 mg/3
		TWA: 25 ppm
		TWA: 140 mg/m <sup>3</sup>
2-Methoxy-1-Methyl Ethyl Acetate	TWA: 50 ppm	
108-65-6		
Diacetone Alcohol	TWA: 50 ppm	TWA: 50 ppm
123-42-2		TWA: 240 mg/m <sup>3</sup>
Silicon Dioxide		TWA: 6 mg/m <sup>3</sup>
7631-86-9		

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)
Isophorone	CEV: 5 ppm	TWA: Peak 5 ppm
78-59-1		TWA: Peak 25 mg/3
Diacetone Alcohol	TWA: 50 ppm	TWA/LMPE-PPT: 50 ppm
123-42-2	TWA: 240 mg/m <sup>3</sup>	TWA/LMPE-PPT: 240 mg/m <sup>3</sup>
	STEL: 75 ppm	STEL/LMPE-CT: 75 ppm
	STEL: 360 mg/m <sup>3</sup>	STEL/LMPE-CT: 360 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 State Odor	Viscous Liquid Sharp	Appearance Odor Threshold	Colored Liquid No information Available
Property PH Melting Point/ Freezing Point Boiling Point/ Boiling Range Flash Point Evaporation Rate Flammability Limit in Air Upper Flammability Limit (% vol) Lower Flammability Limit (% vol) Vapor Pressure	<u>Values</u> > 145 °C/ 293 °F 57.8 °C/ 136 °F	Remarks/ Method No Data Available No Data Available Penskey Martens Closed No Data Available	Cup (PMCC)
Vapor Density Specific Gravity Water Solubility Solubility in Other Solvents Partition Coefficient: N-Octanol/ Water Auto Ignition Temperature Decomposition Temperature Kinetic Viscosity Dynamic Viscosity	1.35	(Air=1) 4.3  No Data Available	
Explosive Property Oxidizing Property		No Data Available No Data Available	

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity Chemical Stability

No information Available 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

Inhalation There is no data for this product
Eye Contact There is no data for this product
Skin Contact There is no data for this product
Ingestion There is no data for this product

Component	CAS No.	Oral LD50
Titanium Dioxide	13463-67-7	>10000 mg/kg (Rat)
Isophorone	78-59-1	1500 mg/kg (Rat)
Petroleum Naphtha, Heavy Aromatic	64742-94-5	5000 mg/kg (Rat)
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	8532 mg/kg (Rat)
Diacetone Alcohol	123-42-2	4 g/kg (Rat)
Aluminum Hydroxide	108-94-1	800 mg/kg (Rat)
Silicon Dioxide	7631-869	>5000 mg/kg (Rat)

Component	CAS No.	LD50 Dermal
Isophorone	78-59-1	1200 mg/kg (Rabbit)
Petroleum Naphtha, Heavy Aromatic	64742-94-5	>2000 mg/kg (Rabbit)
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	>19200 mg/kg (Rabbit)
Diacetone Icohol	123-42-2	13500 mg/kg (Rabbit)
Silicon Dioxide	7631-869	>2000 mg/kg (Rabbit)

Component	CAS No.	Inhalation LC50
Isophorone	78-59-1	7 mg/L (Rat) 4h
Petroleum Naphtha, Heavy Aromatic	64742-94-5	>590 mg/m³ (Rat) 4h
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	>5320 ppm (28.7 mg/L)(Rat) vapour
Silicon Dioxide	7631-869	>2.2 mg/L (Rat) 1h

# 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 There is no data for this product. Eye Damage/Irritation There is no data for this product. 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. There is no data for this product. Reproductive Effects 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 There is no data for this product.

Carcinogenicity

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

Component	CAS No.	IARC	
Titanium Dioxide	13463-67-7	Group 2B	
Component	CAS No.	ACGIH	•
1	70.50.4	4.0	

Isophorone	78-59-1	A3

Component	CAS No.	OSHA
Titanium Dioxide	13463-67-7	X

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Etoxicity**

None known

0% of the mixture consists of components of unknown hazards to the aquatic environment.

Component	CAS No.	Algae/ Aquatic Plants
Isophorone	78-59-1	76 h EC50 Pseudokirchneriella Subcapitata: 51.1 – 342 mg/L
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	96 h EC50 >1000 mg/L or 72h (Green Algae)
Silicon Dioxide	7631-86-9	72 h EC50 Pseudokirchneriella Subcapitata: 440 mg/L

Component	CAS No.	Fish	
Isophorone	78-59-1	78-59-1 96 h LC50 Pimephales Promelas: 132-156 mg/L (flow through)	
		96 h LC50 Lepomis Macrochirus: 180-250 mg/L (static)	
		96 h LC50 Pimephales Promelas: 213-271 mg/L (static)	
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	96 h LC50 Flathead Minnow: 161 mg/L	
Silicon Dioxide	7631-86-9	96 h LC50 Brachydario rerio: 5000 mg/L (static)	
Diacetone Alcohol	123-42-2	96 h LC50 Lepomis Macrochirus: 420 mg/L	
		96 h LC50 Lepomis Macrochirus: 420 mg/L (static)	

Component	CAS No.	Crustacea
Isophorone	78-59-1	48 h EC50 Daphnia Magna: 117 mg/L
2-Methoxy -1 Methyl Ethyl Acetate	105-65-6	48 h EC50 Daphnia Magna: 408 mg/L
Silicon Dioxide	7631-86-9	48 h EC50 Ceriodaphnia Dubia: 7600 mg/L
Diacetone Alcohol	123-42-2	24 h EC50 Daphnia Magna: 8750 mg/L

# Persistence and Degradability

No information Available

### **Bioaccumulation**

No information Available

Component	CAS No.	Partition Coefficient
Petroleum Naphtha, Heavy aromatic	64742-94-5	4.5
Isophorone	78-59-1	1.66
Diacetone Alcohol	123-42-2	1.03

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 NFORMATION**

<u>DOT</u> 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

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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: Supplier (manufacturer/importer/downstream user/ distributor.

# **US Federal Regulations**

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)

This product contains the following substances which are listed hazardous pollutants (HAPS) under section 112 of the Clear Air Act.

Component	CAS NO.	Weight %
Isophorone	78-59-1	15-40

### **U.S. State Regulations**

Component	CAS NO.	Massachusetts Right to Know
Titanium Dioxide	13463-67-7	X
Isophorone	78-59-1	Х
Silicon Dioxide	7631-86-9	X
Diacetone Alcohol	123-42-2	Х

Component	CAS NO.	Minnesota Right to Know
Titanium Dioxide	13463-67-7	X
Isophorone	78-59-1	X
Silicon Dioxide	7631-86-9	Х
Diacetone Alcohol	123-42-2	Х

Component	CAS NO.	New Jersey Right to Know
Titanium Dioxide	13463-67-7	X
Isophorone	78-59-1	X
Silicon Dioxide	7631-86-9	X
Diacetone Alcohol	123-42-2	X
Component	CAS NO.	Pennsylvania Right to Know
Titanium Dioxide	13463-67-7	X
Isophorone	78-59-1	X
Silicon Dioxide	7631-86-9	X
Diacetone Alcohol	123-42-2	X

#### California Prop. 65

This product contains 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

#### Canada

Component	NPRI – National Pollutant Release Inventory
Isophorone	Part 4. Substance as set out in Section 65 of the List of Toxic Substance in
78-59-1	Schedule 1 of the Canadian Environmental Protection Act 1999
Petroleum Naphtha, Heavy Aromatic 647-42-94-5	Part 5. Other Groups and Mixtures. Part 4 Substances as set out in Section 65 of the List of Toxic Substance in Schedule 1 of the Canadian Environmental Protection Act 1999
Diacetone Alcohol	Part 4. Substance as set out in Section 65 of the List of Toxic Substance in Schedule 1 of the Canadian Environmental Protection Act 1999

# **SECTION 16. OTHER INFORMATION**

HMISHealth<br/>2\*Flammability<br/>2ReactivityPersonal Protection<br/>x

# 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 Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen

OSHA Occupational Health and Safety Administration

X Present

Date Nov. 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**