

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

PRODUCT IDENTIFIER

Product Code **GP-1120**
 Product Name **WHITE**
 Product Category **GENERAL PURPOSE SERIES SCREEN INK (GP)**

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use **PRINTING OPERATION**

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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EMERGENCY TELEPHONE NUMBER

Chemtrec 1-613-996-6666

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION

| | |
|--------------------------------|---------------------|
| Acute Toxicity – Oral | Category 4 - (H302) |
| Acute Toxicity – Dermal | Category 4 - (H312) |
| Acute Toxicity - Inhalation | Category 4 - (H332) |
| Skin Irritation | Category 2 - (H315) |
| Serious Eye Damage/ Irritation | Category 2 - (H319) |

LABEL ELEMENTS



SIGNAL WORD: DANGER!

HAZARD STATEMENTS

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled

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 |
|-----------------------------------|----------|------------|------|
| DIACETONE ALCOHOL | 30-60 | 123-42-2 | |
| 2-BUTOXYETHANOL | 10-20 | 111-76-2 | |
| PETROLEUM NAPHTHA, LIGHT AROMATIC | 5-15 | 64742-95-6 | |
| TITANIUM DIOXIDE | 15-30 | 13463-67-7 | |
| SILICON DIOXIDE | 1-5 | 7631-86-9 | |
| ALUMINUM HYDROXIDE | 1-5 | 21645-51-2 | |

SECTION 4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES**General Advice**

Show this safety data sheet to the doctor in attendance.

Eye 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 EFFECTS, 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 INCOMPATIBILITIES

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 13463-67-7 | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ (Total Dust) TWA: 15 mg/m ³ (Total Dust) |
| Silicon Dioxide 7631-86-9 | | TWA: 6 mg/m ³ |
| 2-Butoxyethanol 111-76-2 | TWA: 20 ppm | TWA: 25 ppm TWA: 120mg/m ³ TWA: 50 ppm TWA: 240 mg/m ³ Skin |
| Diacetone Alcohol 123-42-2 | TWA: 50 ppm | TWA: 50 ppm TWA: 240 mg/m ³ |

| Component | Ontario TWAEV | Mexico OEL (TWA) |
|--------------------------------|--|--|
| Titanium Dioxide 13463-67-7 | TWA: 10 mg/m ³ (total dust) | TWA/LMPE-PPT: 10 mg/m ³ (as TI) STEL/LMPE-CT: 20 mg/m ³ (as TI) |
| 2-Butoxyethanol 111-76-2 | TWA: 20 ppm | TWA/LMPE-PPT: 26 ppm TWA/LMPE-PPT: 120 mg/m ³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m ³ |
| Diacetone Alcohol 123-42-2 | TWA: 50 ppm TWA: 240 mg/m ³ STEL: 75 ppm STEL: 360 mg/m ³ | TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 240 mg/m ³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m ³ |

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 | Viscous Liquid | Appearance | Colored Liquid |
| Odor | Mild | Odor Threshold | No information Available |
| <u>Property</u> | <u>Values</u> | <u>Remarks/ Method</u> | |
| PH | | No Data Available | |
| Melting Point/ Freezing Point | | No Data Available | |
| Boiling Point/ Boiling Range | > 145 °C/ 293 °F | | |
| Flash Point | 52 °C/ 126 °F | Penskey Martens Closed Cup (PMCC) | |
| Evaporation Rate | | No Data Available | |
| Flammability Limit in Air | | | |
| Upper Flammability Limit (% vol) | | No Data Available | |
| Lower Flammability Limit (% vol) | | No Data Available | |
| Vapor Pressure | | No Data Available | |
| Vapor Density | | Heavier than air | |
| Specific Gravity | 0.98-1.3 | | |
| 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**

No information Available

Chemical Stability

Stable under normal condition

Possibility of Hazardous Reactions

None under normal processing

Conditions to Avoid

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 |
|-----------------------------------|------------|--------------------|
| Petroleum Naphtha, Light Aromatic | 64742-95-6 | 8400 mg/kg (Rat) |
| Diacetone Alcohol | 123-42-2 | 4000 mg/kg (Rat) |
| 2-Butoxyethanol | 111-76-2 | 470 mg/kg (Rat) |
| Titanium Dioxide | 13463-67-7 | >10000 mg/kg (Rat) |
| Aluminum Hydroxide | 108-94-1 | 800 mg/kg (Rat) |
| Silicon Dioxide | 7631-869 | >5000 mg/kg (Rat) |

| Component | CAS No. | LD50 Dermal |
|-----------------------------------|------------|--|
| Petroleum Naphtha, Light Aromatic | 64742-95-6 | >2000 mg/kg (Rabbit) |
| Diacetone Alcohol | 123-42-2 | 13500 mg/kg (Rabbit) |
| 2-Butoxyethanol | 111-76-2 | 220 mg/kg (Rabbit) 2270 mg/kg (Rat) |
| Silicon Dioxide | 7631-869 | >2000 mg/kg (Rabbit) |

| Component | CAS No. | Inhalation LC50 |
|-----------------------------------|------------|---|
| Petroleum Naphtha, Light Aromatic | 64742-95-6 | 3400 ppm (Rat) 4h >5.2 mg/L (Rat) 4h |
| 2-Butoxyethanol | 111-76-2 | 2.21 mg/L (Rat) 4h 450 ppm (Rat) 4h |
| Diacetone Alcohol | 123-42-2 | 7.23 gg/m ³ (Rat) 4h |
| Silicon Dioxide | 7631-869 | >2.2 mg/L (Rat) |

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. |
| 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 | 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 |
|-----------------|----------|-------|
| 2-Butoxyethanol | 111-76-2 | A3 |

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

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

| Component | CAS No. | Algae /Aquatic Plants |
|-----------------------------------|------------|--|
| Silicon Dioxide | 7631-86-9 | 72 h EC50 Pseudokirchneriella Subcapitata:440 mg/L |
| 2-Butoxyethanol | 111-76-2 | 72 h EC50 Pseudokirchneriella Subcapitata:911 mg/L |
| Component | CAS No. | Fish |
| Petroleum Naphtha, light aromatic | 64741-95-6 | 96 h LC50 Oncorhynchus Mykiss: 9.22 mg/L |
| 2-Butoxyethanol | 111-76-2 | 96 h LC50 Lepomis Macrochirus: 1490 mg/L (static) 96 h LC50 Lepomis Macrochirus: 2950mg/L |
| Diacetone Alcohol | 123-42-2 | 96 h LC50 Lepomis Macrochirus: 420 mg/L 96 h LC50 Lepomis Macrochirus: 420 mg/L (Static) |
| Silicon Dioxide | 7631-86-9 | 96 h LC50 Brachydario Rerio: 5000 mg mg/L (Static) |

| Component | CAS No. | Crustacea |
|-------------------|-----------|--|
| Diacetone Alcohol | 123-42-2 | 24 h EC50 Daphnia Magna: 8750 mg/L |
| 2-Butoxyethanol | 111-76-2 | 24 h EC50 Daphnia Magna: 1698-1940 mg/L 48 h EC50 Daphnia Magna: >1000 mg/L |
| Silicon Dioxide | 7631-86-9 | 48 h EC50 Cerioddaphnia Dubia: 7600mg/L |

Persistence and Degradability

No information Available

Bioaccumulation

No information Available

| Component | CAS No. | Partition Coefficient |
|-------------------|----------|-----------------------|
| Diacetone Alcohol | 123-42-2 | 1.03 |
| 2-Butoxyethanol | 111-76-2 | 0.81 |

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

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

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.

| Component | CAS NO. | Weight % | SARA 313 Threshold Values |
|-----------------|----------|----------|---------------------------|
| 2 Butoxyethanol | 111-76-2 | 10-30 | 1.0 |

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

This product does not contain air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

U.S. State Regulations

| Component | CAS NO. | Massachusetts Right to Know |
|-------------------|------------|-----------------------------|
| Titanium Dioxide | 13463-67-7 | x |
| 2-Butoxyethanol | 111-76-2 | x |
| Diacetone Alcohol | 123-42-2 | x |
| Silicon Dioxide | 7631-86-9 | x |

| Component | CAS NO. | Minnesota Right to Know |
|-------------------|------------|-------------------------|
| Titanium Dioxide | 13463-67-7 | x |
| 2-Butoxyethanol | 111-76-2 | x |
| Diacetone Alcohol | 123-42-2 | x |
| Silicon Dioxide | 7631-86-9 | x |

| Component | CAS NO. | New Jersey Right to Know |
|-------------------|------------|--------------------------|
| Titanium Dioxide | 13463-67-7 | x |
| 2-Butoxyethanol | 111-76-2 | x |
| Diacetone Alcohol | 123-42-2 | x |
| Silicon Dioxide | 7631-86-9 | x |

| Component | CAS NO. | Pennsylvania Right to Know |
|-------------------|------------|----------------------------|
| Titanium dioxide | 13463-67-7 | x |
| 2-Butoxyethanol | 111-76-2 | x |
| Diacetone Alcohol | 123-42-2 | x |
| Silicon Dioxide | 7631-86-9 | 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 |
|---|---|
| Petroleum Naphtha, Light Aromatic 64742-95-6 | Part 5. Other Groups and Mixtures |
| Diacetone Alcohol 123-42-2 | Part 4. Substances as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act 1999 |
| 2 Butoxyethanol | Part 1. Group A substance, Part 5 Individual Substance, Part 4, Substances as |

SECTION 16. OTHER INFORMATION

| | | | | |
|-------------|--------------|-------------------|-----------------|--------------------------|
| HMIS | Health 2* | Flammability 2 | Reactivity 0 | Personal Protection 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 Dec. 1, 2018

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