1. Identification of the substance/mixture and of the company/undertaking

Product identifier
Product Name: MicroVert+ GP2040

Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Industrial/Professional use

Details of the supplier of the safety data sheet
DiverterPlus, LLC
281 Clarkson Road, Suite 102
Ellisville, MO 63011
P: 1-833-388-7587
F: 1-636-238-2101

Emergency telephone number
Chemtrec: 800-424-9300 or 703-527-3887 (CCN# 831361)

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category	Route of exposure
Combustible Dust		--

GHS-Labelling

Contains:
Polylactide resin (proprietary)

Signal word: Warning

Hazard statements:

May form combustible dust concentrations in air.

HMIS IV Hazard Ratings: Health - 1, Flammability - 1, Physical Hazard - 0

NFPA Hazard Ratings: Health - 0, Flammability - 1, Instability - 0

NOTE: HMIS IV and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
97 - 99	Polylactide resin (proprietary)
0.5 - 3	Silica (7631-86-9)

4. First aid measures

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed: The immediate symptoms and effects of this material are currently unknown.

Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

5. Firefighting measures

Extinguishing Media: Water mist, Dry chemical, Carbon dioxide (CO2). Do NOT use water jet.

Special hazards arising from the substance or mixture
Hazardous Combustion Products: Carbon oxides, acetaldehyde, Oxides of Silicon

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

Unusual Fire and Explosion Hazards: Dust may form explosive mixture in air. Fire or high temperatures may cause decomposition.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Avoid generation of dust. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Shovel into suitable container for disposal. Non-sparking tools should be used. Clean surface thoroughly to remove residual contamination.

Environmental precautions: Prevent runoff from entering drains, sewers, or streams.

For Large Spills: Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling

Personal precautions: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Dust may form explosive mixture in air. Avoid dust formation. Use only with adequate ventilation. Keep away from heat and sources of ignition. Refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids." Keep from contact with oxidizing materials.

Ventilation: Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8).

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place. Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
Silica	OSHA	TWA	20 mppcf
Silica		Time weighted average	50 µg/m3
		Remarks: excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays	
		Action Level	25 µg/m3
		Time weighted average	50 µg/m3

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded. Use explosion-proof ventilating equipment.

Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Respiratory protection: If engineering controls do not maintain airborne concentrations to an acceptable level, a NIOSH certified particulate respirator must be worn.

9. Physical and chemical properties

Physical form: solid

Particle size: > 100 nm

Colour: white

Odour: No data available - testing not performed

Specific gravity: No data available - testing not performed

Vapour pressure: No data available - not applicable based on physical state

Vapour density: No data available - not applicable based on physical state

Water solubility: No data available - testing not performed

pH: No data available - testing not performed

Flash point: not applicable, combustible solid

Evaporation rate: No data available - testing not performed

Flammability (Solid; gas): No data available - testing not performed

Upper explosion limit: No data available - testing not performed

Lower explosion limit: No data available - testing not performed

Partition coefficient: n-octanol/water: No data available - testing not performed

Auto-ignition temperature: No data available - testing not performed

Decomposition temperature: No data available - testing not performed

Viscosity: No data available - testing not performed

Explosive properties: No data available - testing not performed

Oxidizing properties: No data available - testing not performed

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: Heat, flames, sparks, and other sources of ignition., moisture.

Incompatible materials: Strong oxidizing agents, Water.

Hazardous decomposition products: Carbon oxides, acetaldehyde, silicon oxides

11. Toxicological information

Effects of Exposure

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: Dust contact with the eyes can lead to mechanical irritation.

Skin: May be harmful in contact with skin. Contact with dust can cause mechanical irritation or drying of the skin.

Ingestion: Expected to be a low ingestion hazard.

Data for Polylactide resin:

Acute Toxicity Data:
Oral LD50 (Rat): > 5,000 mg/kg

- Dermal LD50 (Rabbit): > 2,000 mg/kg

Data for Silica (CAS 7631-86-9):

Acute Toxicity Data:
Oral LD50 (Rat): > 3,200 mg/kg (Highest dose tested - no evidence of effects at this dose level., No mortality observed at this dose.)

- Inhalation LC50 (Rat): > 2.2 mg/l / 1 hr (No mortality observed at this dose.)
- Dermal LD50 (Rabbit): > 2,000 mg/kg (Highest dose tested - no evidence of absorption at this dose level.)

Carcinogenicity

American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
International Agency for Research on Cancer (IARC):	Group 1 - Carcinogenic to Humans: Silica
U.S. National Toxicology Program (NTP):	Known Human Carcinogen: Silica
U.S. Occupational Safety and Health Administration (OSHA):	OSHA Carcinogen or Potential Carcinogen: Silica
California Prop. 65	WARNING! This product contains a chemical known to the State of California to cause cancer.

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50):	> 100 mg/l estimated
Toxicity to daphnia (EC50):	> 100 mg/l estimated

Persistence and degradability: Not readily biodegradable.

This product has not been tested for environmental effects.

Bioaccumulative potential

No data available

Mobility in soil

No information available.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	Not all listed
NZIoC	All listed
PICCS	Not all listed
TCSI	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

Other regulations

U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	Silica
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	Silica
U.S. - California - 8 CCR Section 5203 Carcinogens:	Silica
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Silica
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	Silica
U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	No components regulated under the New Jersey Worker and Community Right-to-Know Act.
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):	Polylactide resin , Silica

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

MicroVert+ GP2040

Contains:
Polylactide resin (proprietary)

Signal word: Warning

Hazard statements:

May form combustible dust concentrations in air.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

DiverterPlus™ transport optimized products are patent pending.
