

**SAFETY DATA SHEET (SDS)****Section 1. Identification**

Product identifier	Metallic Pigments
Other means of identification	FF-Pigment
Recommended use and restrictions on use	Pigment
Initial supplier identifier	LabSurface 101-1079 des Forges, Terrebonne, J6Y0J9, Québec (Canada) Tél. (450) 966-9000
Emergency telephone number/restriction on use	Canada – CANUTEC Number 24 hours 613-996-6666

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)	Not a hazardous substance or mixture
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)	<p>Warning Not a hazardous product.</p> <p>Prevention Not classified.</p> <p>Response IF SWALLOWED: P301 + P330 Rinse mouth. P314 Get medical advice/attention if you feel unwell. IF ON SKIN: P302 + P352 Wash with plenty of water IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell.</p> <p>Storage P403 + P233 Store in a well-ventilated place. Keep container tightly closed</p> <p>Disposal P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.</p>
Other hazards known	None

Section 3. Composition/Information on Ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%) *
Mica	12001-26-2	49-57 %
Diiron Trioxide	1309-37-1	30 - 50 %
Colors may contain:		
Tin Oxide	18282-10-5	0 - 1 %
Iron Oxide, black	1317-61-9	< 30 %
C.I. 77288 Pigment green	171308-38-9	< 15 %
Weather Resistant Mixture Proprietary		1 – 6 %

*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

Section 4. First-Aid Measures

Inhalation	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If breathing has stopped, perform artificial respiration. If symptoms persist, seek medical attention.
Ingestion	IF SWALLOWED: Prevent aspiration of vomit. Immediately call a doctor. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.
Skin contact	IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). Seek immediate medical attention. Wash contaminated clothing before reuse. If symptoms persist, seek medical attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes (20 - 30 minutes). Seek immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	May causes mild skin and eye irritation. May be harmful if swallowed. May cause irritation of nose, throat or respiratory tract. Suspected of causing cancer.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

Section 5. Fire-Fighting Measures

Specific hazards of the hazardous product (hazardous combustion products)	Metal Oxide/Oxides, ambient may release hazardous vapors.
Suitable and unsuitable extinguishing media	In case of fire: Water spray, foam, dry powder or carbon dioxide.
Special protective equipment and precautions for fire-fighters	During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into
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drains, sewers, water supplies, or soil. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material.			
Methods and materials for containment and cleaning up			
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Dispose of in accordance with local, provincial and federal regulations.			
Section 7. Handling and Storage			
Precautions for safe handling			
Avoid contact with eyes and skin. Avoid inhalation and ingestion. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails /face/eyes thoroughly after handling and before eating or smoking. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.			
Conditions for safe storage, including any incompatibilities			
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.			
Section 8. Exposure Controls/Personal Protection			
Control parameters (biological limit values or exposure limit values and source of those values)			
Exposure limits ACGIH – TLV-TWA: CAS 12001-26-2: 3 mg/m ³ ; CAS 1309-37-1: 5 mg/m ³ ; CAS 1317-61-9: 3 mg/m ³ breathing & 10 mg/m ³ total dust; CAS 171308-38-9 : 0,5 mg/m ³ ; CAS 18282-10-5: Not indicate.			
Appropriate engineering controls			
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.			
Individual protection measures/personal protective equipment			
Gloves: Neoprene gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.			
Section 9. Physical and Chemical Properties			
Appearance, physical state/colour	Powder	Vapour pressure	Not available
Odour	Odourless	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Not soluble
Melting/freezing point	Not available	Partition coefficient - n-octanol/water	Not available
Initial boiling point/range	Not available	Auto-ignition temperature	Not available
Flash point	Not flammable	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solids and gases)	Not available	VOC	Not available
Upper and lower flammability/explosive limits	Not available	Other	None known
Section 10. Stability and Reactivity			
Reactivity			
Stable under normal conditions.			
Chemical stability			
Yes, Stable under the recommended storage and handling conditions prescribed.			
Possibility of hazardous reactions			
Non under normal conditions of storage and use.			
Conditions to avoid (static discharge, shock or vibration)			
Avoid generating dust, avoid heat.			
Incompatible materials			
Not available			
Hazardous decomposition products			
Metal oxides			
Section 11. Toxicological Information			
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)			
May cause skin and eye irritation. May be harmful if swallowed. May cause irritation of nose, throat or respiratory tract. Suspected of causing cancer.			



Symptoms related to the physical, chemical and toxicological characteristics	
No specific information available.	
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	
Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – Not data available; Carcinogenicity – Ingredients listed by IARC Group 2B (possible carcinogenic to humans); Reproductive Toxicity – Not classified; Specific Target Organ Toxicity — Single Exposure – Not classified; Specific Target Organ Toxicity — Repeated Exposure – Not classified; Aspiration Hazard – Not classified; Health Hazards Not Otherwise Classified – No data available.	
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)	
NOTE: The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; sensitization test (guinea pig): no sensitizing potential; sub-chronic toxicity (rat): no findings up to 20,000 ppm. LD50 (oral, rat): not determinable; all animals still alive after 15,000 mg/kg. Chronic toxicity (rat): 5 % of the product added to the feed for a period of 2.5 years did not show any toxicological changes or carcinogenic effects in animals. LC50 (inhalational, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: > 14.9 mg/l air. The product did not show any genotoxic effects in the micronucleus test carried out in rats in concentrations of up to 2000 mg/kg (limit test). Handle in accordance with good industrial hygiene and safety practice.	
Section 12. Ecological Information	
Ecotoxicity (aquatic and terrestrial information)	
Not available.	
Persistence and degradability	Not available.
Bio-accumulative potential	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.
Section 13. Disposal Considerations	
Information on safe handling for disposal/methods of disposal/contaminated packaging	
Dispose of contents/container into safe container in accordance with local, regional or national regulations.	
Section 14. Transport Information	
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations	
Not regulated.	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)	
Not regulated.	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)	
Not regulated.	
Special precautions (transport/conveyance)	None
Environmental hazards (IMDG or other)	None
Bulk transport (usually more than 450 L in capacity)	None
Section 15. Regulatory Information	
Safety/health Canadian regulations specifics	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	
United States OSHA information: This product is regulated according to OSHA (29 CFR). United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3.	
Section 16. Other Information	
Date of the latest revision of the safety data sheet	February 25, 2020 - version 01
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.europea.eu
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)



PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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