

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587 5999



SECTION 1: IDENTIFICATION

Product identifier used on the label	MondoBlack®
Other means of identification	MB001
Recommended use of the chemical and restrictions on use	Master batch plastics, rubber products and bitumen membranes
Chemical family	Pure substance with impurities
Name, address, and telephone number of the supplier	Ecolomondo Corporation, 3435 Pitfield Blvd. Montreal, Quebec, Canada H4S 1H7
Name, address, and telephone number of the manufacturer	Refer to supplier
Supplier's Telephone#	(450) 587 5999
24 Hr. Emergency Tel#	In case of transportation emergencies: (613) 996-6666 (CANUTEC)

SECTION 2: HAZARD IDENTIFICATION

Classification of the chemical	Black powder or pellets. Odorless.
Most important hazards	Do not breath dust or fume. This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910. 1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Hazardous classification	Specific target organ toxicity, repeated exposure - Category 1 (respiratory)
Hazard pictogram(s)	
Signal Word	DANGER!
Hazard statement(S)	Causes damage to the lungs and respiratory system through prolonged or repeated exposure if inhaled
Precautionary statement(S)	<ul style="list-style-type: none"> - Do not breath dust - Wash exposed skin thoroughly after handling - Do not drink, eat or smoke while using this product - Get medical attention / advice if you feel unwell - Dispose of contents/containers in accordance with local regulation
Other hazards	Other hazards which do not result in classification: May be mildly irritating to skin, eyes and respiratory system. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea
Environmental precautions	Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3: COMPOSITION / INGREDIENT INFORMATION

Chemical name	Form	CAS #	Concentration (% by weight)
---------------	------	-------	-----------------------------

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



Carbon black	Amorphous	1333-86-4	83.0 – 91.0
Zinc sulfide	Amorphous	1314-98-3	6.0 – 3.0
Zinc sulfide	Crystalline	1314-98-3	2.5 – 1.5
Zinc oxide	Crystalline	1314-13-2	0.0 – 0.1
Silicon Dioxide	Crystalline	14808-60-7	0.0 – 0.1
Silicon Dioxide	Amorphous	7631-86-9	6.0 – 3.0
Traces sulfides			2.0 – 1.0
Traces Oxides			1.0 – 0.5

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

SECTION 4: FIRST AID MEASURES

Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention.
Inhalation	If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical advice/attention.
Skin contact	Wash contaminated area with soap and lukewarm, gently running water, while removing contaminated clothing. Wash contaminated clothing before re-use.
Eye contact	Flush with large amounts of water for 15 minutes. Get medical attention if irritation develops and persists.
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"> - Causes damage to the lungs and respiratory system through prolonged or repeated exposure if inhaled. - May be mildly irritating to skin, eyes and respiratory system. - Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire
Special hazards arising from the substance or mixture / Conditions of flammability	Not expected to be sensitive to mechanical impact or static discharge. Dust may be ignited if suspended in air, however, not expected to be a significant fire risk.
Flammability classification (OSHA 29 CFR 1910.106)	Not flammable.
Hazardous combustion products	Carbon oxides, Nitrogen oxides, Sulphur oxides, Silicon oxides, Zinc oxide.
Special protective equipment and precautions for firefighters	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



Special fire-fighting procedures	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
---	--

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.
Environmental precautions	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces
Methods and material for containment and cleaning up	Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Sweep up and shovel into suitable containers for disposal. Use methods that do not generate dusts. Notify the appropriate authorities as required
Special spill response procedures	If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Use only in well-ventilated areas. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Keep container tightly closed when not in use.
Conditions for safe storage	Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage of leaks. No smoking in the area.
Incompatible materials	Strong oxidizing agents and acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation and engineering measures	Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits
Respiratory protection	Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.
Skin protection	Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
Eye / face protection	Safety goggles or glasses as appropriate for the job.
Other protective equipment	Wear sufficient clothing to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
General hygiene considerations	Do not breathe dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



Exposure Limits:				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Carbon black	3.0 mg/m ³ (inhalable)	N/Av	3.5 mg/m ³	N/Av
Silica, crystalline	10 mg/m ³ (inhalable); mg/m ³ (respirable) (as (PNOS)	N/Av	20 mppcf	N/Av
PAHs	N/Av	N/Av	N/Av	N/Av

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black powder or pellets.
Odor	Odorless.
Odor threshold	No information available.
pH	6.0 - 7.5
Melting Point/Freezing point	Decomposes.
Initial boiling point and boiling range	No information available.
Flash point	Non-flammable.
Flashpoint (Method)	No information available.
Evaporation rate (BuAe = 1)	No information available.
Flammability (solid, gas)	No information available.
Lower flammable limit (% by vol.)	No information available.
Upper flammable limit (% by vol.)	No information available.
Oxidizing properties	None.
Explosive properties	Dust may be ignited if suspended in air, however, not expected to be a significant fire risk.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density / Specific gravity	1.7-1.9
Solubility in water	Slight
Other solubility(ies)	Negligible
Partition coefficient: n-octanol/water or Coefficient of water/ distribution	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.
Volatiles (% by weight)	0.5-10@ 950 0 C
Volatile organic Compounds (VOC's)	N/Av
Absolute pressure of container	N/Av
Flame projection length	N/Av
Other physical/chemical comments	ignition temperature:>10J

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not normally reactive
-------------------	-----------------------

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



Chemical stability	Stable under the recommended storage and handling conditions prescribed
Possibility of hazardous reactions	Hazardous polymerization does not occur
Conditions to avoid	Avoid contact with incompatible materials. Avoid dust formation
Incompatible materials	Strong acids and oxidizing agents
Hazardous decomposition products	None known, refer to hazardous combustion products in Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	
Routes of entry inhalation	Yes
Routes of entry skin & eye	Yes
Routes of entry ingestion	Yes
Routes of exposure skin absorption	No

Potential Health Effects:	
Sign and symptoms Inhalation	Causes mild respiratory irritation. Symptoms may include coughing, chest pain and Shortness of breath
Sign and symptoms Ingestion	May cause nausea, stomach pain and vomiting.
Sign and symptoms Skin	Prolonged skin contact may cause skin irritation.
Sign and symptoms Eyes	Inert particles may cause mechanical irritation of the eyes, including scratches.
Potential Chronic Health Effects	Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust.
Mutagenicity	Not expected to be mutagenic in humans.
Carcinogenicity	Not classifiable as a human carcinogen, based on currently available data. The International Agency for Research on Cancer (IARC) evaluation (Monograph 65, 1996 publication) concluded, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black." This categorization was based upon IARC's guidelines, which require such a classification if one species exhibits carcinogenicity in two or more studies. Based on this evaluation, along with its finding of inadequate evidence of carcinogenicity in humans, IARC designated carbon black as a Group 2B carcinogen, that is "possibly carcinogenic to humans." Some other research and regulatory organizations that have classified carbon black as to its carcinogenicity include: The American Conference of Governmental Industrial Hygienists (ACGIH) classifies carbon black as A4, Not Classifiable as a Human Carcinogen
Reproductive effects & Teratogenicity	Not expected to have other reproductive effects
Sensitization to material	Not expected to be a skin or respiratory sensitizer
Specific target organ effects	This material is classified as hazardous under U.S. OSHA regulations (29CFR1910. 1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, repeated exposure - Category 1 Causes damage to the lungs and respiratory system through prolonged or repeated exposure if inhaled. If dusts are formed, prolonged inhalation may cause scarring of lung tissue, a disease called silicosis.

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



Medical conditions aggravated by overexposure	Pre-existing skin, eye and respiratory disorders
Synergistic materials	Not available
Toxicological data	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.
Other important toxicological hazards	See Section 3 for additional information.

Chemical name	LC ₅₀ (4hr) <u>inh, rat</u>	LD ₅₀	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Carbon black	6.75 mg/L (dust)	> 10 000 mg/kg	> 3000 mg/kg
Silica, crystalline	N/Av	3160 mg/kg	> 5000 mg/kg
PAHs	N/Av	2 g/kg	N/Av

SECTION 12: ECOLOGICAL INFORMATION

No data is available on the product itself. The Product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
 See the following tables for individual ingredient ecotoxicity data.

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Carbon black	1333-86-4	> 1000 mg/L (Zebra fish)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 48h	NOEC / 21 day	M Factor
Carbon black	1333-86-4	> 5600 mg/L/24hr (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		EC50 / 96h or 70h	NOEC / 96h or 72h	M Factor
Carbon black	1333-86-4	> 10 000 mg/L/24hr (Green algae)	N/Av	None.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Silica, crystalline (CAS Various)	N/Av	no bioaccumulation expected
PAHs (CAS 206-44-0)	5.33	N/Av

Persistence and degradability	No data is available on the product itself.
Bioaccumulation potential	No data is available on the product itself.
Mobility in soil	No data is available on the product itself.

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587-5999



SECTION 13: DISPOSAL CONSIDERATIONS

General material information	Product can be burned in suitable incineration plants or disposed of in a suitable landfill in accordance with the regulations issued by the appropriate federal, provincial, state and local authorities.
Waste codes and classification	<ul style="list-style-type: none"> - EU: EU Waste code No.61303 per Council Directive 75/422/EEC - US: Not a hazardous waste under U.S.RCRA, 40 CFR 261 - Canada: Not a hazardous waste under provincial regulations

SECTION 14: TRANSPORTATION INFORMATION

United states department of transportation Hazardous Materials Regulations (DOT)	Not restricted, shipping name: Carbon Black
Canadian Transport of Dangerous Goods (TDG)	Not restricted, shipping name: Carbon Black
European Carriage of Dangerous goods by rail (RID), by road (ADR), or on the Rhine (ADNR)	Not restricted, shipping name: Carbon Black
International Air Transport Association (IATA)	Not restricted. Listed as "Carbon Black, non-activated mineral origin"
International Civil Air Organization – Technical instructions (ICAO-TI)	Not restricted. Listed as "Carbon Black, non-activated mineral origin"
International Maritime Dangerous Goods Code (IMDG)	Not restricted. Listed as "Carbon Black, non-activated mineral origin"
United Nations Recommendations on the Transport of Dangerous Goods	Not restricted, shipping name: Carbon Black

SECTION 15: REGULATORY INFORMATION

International Regulations	
Canada	Workplace hazardous Material Information System (WHMIS) – Combustible Dust This product has been classified in accordance with the hazard criteria of the Controlled products Regulations and MSDS contain all the information required by the Controlled Products Regulations".
United States	Carbon black is on the Chemical Hazard Information Profile (CHIP) list under TSCA. Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 Toxic substances, does not contain any components under this section.
European Union	<ul style="list-style-type: none"> - Label information: Carbon black is not defined as dangerous substance or preparation according to European Regulation 1272/2008/EC (CLP) and its various amendments and adaptations. - Risk and safety phrases S22: Do not breath dust S33: Take precautionary measures against static discharge - Symbol – Not required

Toxic Release Inventory (TRI):

Under EPA's Toxics Release Inventory (TRI) program the reporting threshold of 21 Polycyclic Aromatic Compounds (PACs) has been lowered to 100 pounds per year manufactured, processed, or otherwise used and the reporting threshold of benzo pyrene is 10lb/year. (64 CFR 58666, Oct 29,1999). The 100 pounds/year applies to the cumulative total of 21 specific PACs. Carbon black may contain certain of these PACs and the user is advised to evaluate their own TRI reporting responsibilities. This product is not expected to contain detectable quantities of these substances, based on process testing of pyrolytic oil

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
 Montreal, Quebec, Canada, H4S 1H7
 Telephone: (450) 587 5999



produced in the manufacturing operation. California Safe Drinking Water and Toxics Enforcement Act of 1986 (Proposition 65), Carbon black (airborne, unbound particles of respirable size, not bound in matrix) is a California Proposition 65 listed substance.

Inventory Status:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Carbon black	1333-86-4	215-609-9	Present	Present	(5)-3328; (5)-5222	KE-04682	Present	HSR002801

USA Right-to-Know – Federal:

This material contains one or more of the following chemicals required to be identified under SAR Section 302 (40 CFR 355 Appendix A), SARA Section 313, N982 940 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SECTION 16: OTHER INFORMATION

Legend

- **ACGIH:** American Conference of Governmental Industrial Hygienists
- **AICS:** Australian Inventory of Chemical Substances
- **ATE:** Acute Toxicity Estimate
- **CAS:** Chemical Abstract Services
- **CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- **CFR:** Code of Federal Regulations
- **DOT:** Department of Transportation
- **EINECS:** European Inventory of Existing Commercial chemical Substances
- **ENCS:** Existing and New Chemical Substances
- **EPA:** Environmental Protection Agency
- **HSDB:** Hazardous Substances Data Bank
- **IARC:** International Agency for Research on Cancer
- **IECSC:** Inventory of Existing Chemical Substances
- **Inh:** Inhalation
- **KECL:** Korean Existing Chemicals Inventory
- **KECL:** Korean Existing Chemicals List
- **LC:** Lethal Concentration
- **LD:** Lethal Dose
- **MSHA:** Mine Safety and Health Administration
- **MST:** Mountain Standard Time
- **N/Ap:** Not Applicable
- **N/Av:** Not Available
- **NFPA:** National Fire Protection Association
- **NIOSH:** National Institute of Occupational Safety and Health
- **NOEC:** No observable effect concentration
- **NTP:** National Toxicology Program
- **OSHA:** Occupational Safety and Health Administration
- **PEL:** Permissible exposure limit
- **PICCS:** Philippine Inventory of Chemicals and Chemical Substances
- **RCRA:** Resource Conservation and Recovery Act
- **RTECS:** Registry of Toxic Effects of Chemical Substances
- **SARA:** Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit
- **TCC:** Tagliabue Closed Cup
- **TDG:** Canadian Transportation of Dangerous Goods Act & Regulations
- **TLV:** Threshold Limit Values
- **TSCA:** Toxic Substance Control Act
- **TWA:** Time Weighted Average
- **WHMIS:** Workplace Hazardous Materials Identification System

SAFETY DATA SHEET

Ecolomondo Corporation 3435 Pitfield Blvd.
Montreal, Quebec, Canada, H4S 1H7
Telephone: (450) 587 5999





REFERENCES

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- International Agency for Research on Cancer Monographs, searched 2019.
- Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
- Safety Data Sheets from manufacturer.
- US EPA Title III List of Lists - June 2019 version.
- California Proposition 65 List - September 2019 version.
- OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2019.
- Carbon black association.

Other Special consideration for handling: Provide adequate information, instruction and training to operators.

Preparation Date (mm/dd/yyyy): 02/28/2020

Revision Date (mm/dd/yyyy). : 10/12/2021

<p>Prepared for: Ecolomondo Corporation 3435 Pitfield Blvd. Montreal, Quebec, H4S 1H7 Telephone: (450) 587 5999</p>	 ECOLOMONDO
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	 ComplianceCenter

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Ecolomondo Corporation and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for Your consideration and guidance when exposed to this product ICC The Compliance Center Inc and Ecolomondo Corporation expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.