PT. Indowijaya Sakti Teguh
Jl. Pangeran Jayakarta 121/3-4, Jakarta Pusat
www.puffinpaint.com Telp : 021- 62313238

MATERIAL SAFETY DATA SHEET

PUFFIN SILICA FLOUR

TRADE NAME : PUFFIN SILICA FLOUR

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Identification of Substance or Preparation
Chemical description : Silica
Recommendation : Filler

Company / Undertaking Identificaation Supplier
PT.Indowijaya Sakti Teguh
Jl.PangeranJayakarta No. 121/3-4, Jakarta Pusat, 10730. Indonesia
Phone : +6221 6231 3238
WA : +6287873743534 (WA messages only)
Email : sales.support@puffinpaint.com

2. COMPOSITION / INFORMATION ON INGREDIENTS:

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number	OSHA PEL	ACGIH TLV
Silicon Dioxide, SiO2	>85%	14808-60-7	0.1 mg/m3	.1 mg/m3

Particulates Not Otherwise Classified or Regulated : 15 mg/m3 respirable dust
COMPOSITION COMMENT: Silica, Crystalline Quartz (respirable). California Prop 65: This product does contain an ingredient which is known to the state of California to cause cancer, birth defects, or other reproductive harm. SiO2, Silicon Dioxide from long term inhalation. See Section 15.
HAZARDS DISCLOSURE: This product contains known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 except as listed above. As defined under Sara 311 and 312, this product contains known hazardous materials.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Excessive inhalation of crystalline silica is a serious health concern.

HMIS/NFPA Rating: Health - 1, Flammability - 0, Reactivity – 0, Personal Protection Index - t
NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
ProtectiveEquipment: t = Dust respirator under dust generating conditions.

POTENTIAL HEALTH EFFECTS

INHALATION: Acute, short term exposure; mild and temporary discomfort to respiratory tract. Similar to nuisance dust. Excessive inhalation of crystalline silica is a serious health concern.

INGESTION: Not Listed.
SKIN CONTACT: No hazard known or expected.
EYE CONTACT: Dust may cause mechanical irritation, redness, pain, and corneal damage if not flushed out promptly.
CHRONIC EXPOSURE: Chronic, long term exposure (10 years - 30 years), may result in pulmonary fibrosis (silicosis). Aggravates bronchitis, asthma and emphysema.
CONDITIONS GENERALLY AGGRAVATED BYEXPOSURE: Bronchitis, Emphysema and Asthma. Smoking is known to aggravate the effects of exposure. Persons with silicosis may develop tuberculosis. Exposure to crystalline silica may also result in scleroderma and/or kidney disease.

4. FIRST AID MEASURES

INHALATION FIRST AID: If a respiratory problem develops from dust. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility. Normally all that is required will be to bring victim to fresh clean air.

SKIN CONTACT FIRST AID: Not Required.

EYE CONTACT FIRST AID: If dust comes into contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

INGESTION FIRST AID: First aid procedures not normally required.

STATEMENT OF PRACTICAL TREATMENT: Always have plenty of water available for first aid. Get medical attention if any symptoms develop or persist.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not flammable.

FLAMMABLE LIMITS IN AIR, % by Volume: Not applicable.

AUTO IGNITION TEMPERATURE: Not available.

EXTINGUISHING MEDIA: Water, dry chemical, alcohol foam, or carbon dioxide. Material floats on water. Water spray may be used to keep exposed material cool. Do not allow water runoff to enter sewers or waterways.

FIRE & EXPLOSION HAZARDS: NONE.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Physical form requires no obvious personal protective equipment when cleaning up spills. Wear a dust mask if particulate count exceeds limits.

SPILLS PROCEDURE: Material may be wetted with water to reduce dust and collected for reprocessing or disposal.

ENVIRONMENTAL PRECAUTIONS: None.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE CONDITIONS: Avoid conditions of extreme humidity. SHELF LIFE: Indefinite if stored properly. HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures. Avoid breathing dust if present. Wash thoroughly after handling.

8. EXPOSURE CONTROLS PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: See Section 2 above.

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the respirable particulate exposure limit is exceeded, wear a NIOSH approved dust mask.

SKIN PROTECTION: In normal industrial use no skin protection is required. EYE **PROTECTION:** When mechanically working this product, safety glasses with side shields or coverall goggles are recommended for airborne dust exposures in excess of the applicable limits. Personal Protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

FORM: solid sheet

COLOR: Tan to off white granuals

ODOR: odorless

BOILING POINT: 2230 C (4046 F)

SOLUBILITY IN WATER: Insoluble in water

SPECIFIC GRAVITY: 2.6 g/cm3

MELTING/FREEZING POINT: Not available

Evaporation Rate: Not applicable

Auto ignition Temperature: Not available

pH: Not applicable

Flash Point & Method: Not applicable – non-flammable

VOC = None

VAPOR PRESSURE: @ 72F 10 mm Hg.

10. STABILITY AND REACTIVITY

STABILITY: The material is stable.

CONDITIONS TO AVOID: Contact with incompatibles, see below.

POLYMERIZATION: Polymerization will not occur**.**

INCOMPATIBILITY: Contact with agents such as molten magnesium, fluorine, chlorine triflouride, manganese trioxide, oxygen difluoride, or hydrofluoric acid may cause fires or corrosive gases.

DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION

Toxicity: There are no toxicological data for this material.Adverse health effects are not known nor are expected under normal use.
Local effects: Dust may cause mechanical irritation of eyes. Chronic, long term exposure (10 years - 30 years), may result in pulmonary fibrosis (silicosis). Aggravates bronchitis, asthma & emphysema.
Sensitization: Not known to occur with this material.
Long term toxicity: Adverse health effects are not known nor are expected under normal use

12. ECOLOGICAL INFORMATION

Material offers no known environmental hazard

13.DISPOSAL CONSIDERATION

WASTE DISPOSAL: Whatever cannot be saved for recovery or recycling should be handled as a non hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of material in accordance with federal, state and local requirements. May be land filled according to local, state and federal regulations. CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

14.TRANSPORT INFORMATION

Domestic (Land, D.O.T.), International (Water, I.M.O.),International (Air, I.C.A.O.)

PRODUCT LABEL : Gravel	**UN NUMBER: Non-Regulated material**
PACKAGE CLASS : 50	**D.O.T. HAZARD CLASS: NA**
D.O.T. PROPER SHIPPING NAME: Not regulated	**PACKING GROUP: NA**
PRODUCT RQ (LBS): None	

15. REGULATORY INFORMATION- FEDERAL REGULATORY STATUS

OSHA Classification: Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. As a respirable dust only.

This product is also regulated by the Mine Safety Health Administration (MSHA).

Carcinogenicity: by IARC?: Yes (X) No ( ) by NTP?: Yes (X) No ( ) IARC classifies crystalline silica in Group 2A, "probably carcinogenic to humans." NTP classifies respirable crystalline silica in a category of substances which may "reasonably be anticipated to be carcinogens."

California Prop 65: Yes (X) No ( ) Silica, crystalline (airborne particles of respirable size), is cited in 90 California Reg. Notice 984, Safe Drinking Water and Enforcement Act of 1986, as known to the state of California to cause cancer.

Not on the 302 list of SARA reportable quantities.

Poison Schedule: None allocated. WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

16. OTHER INFORMATION

Prepared By.....: DonatoPolignone
Approved By.....: Donato Polignone
Approval Date.....: January 18, 2005

Part Number.....:
Title.....: MSDS Coordinator
Supersedes Date...: January 10, 2005

NOTES

PT.INDOWIJAYA SAKTI TEGUH has a responsibility to take reasonable care for our own health and safety and the health and safety of others who may be affected by our acts or omissions. This M.S.D.S. at the date of issue has Health and Safety Information of the product, and how to safely handle and use this product in the workplace.

All information given is our best knowledge, and because we cannot anticipate or control the conditions of the end use of this products, prior to usage, each user must determine by reviewing this M.S.D.S, Safe Handling and usage of this products in the Workplace.

PT.INDOWIJAYA SAKTI TEGUH believe this information to be reliable, and in good faith, but no guarantees or warranties of any kind are made as to its accuracy, suitability to particulate applications due to variations in methods, conditions and equipment. When PT.INDOWIJAYA SAKTI TEGUH provides information and service involving skill, assistance, judgment, recommendations, and or advise this is done on the best of our knowledge only; information is not be relied upon.

Full scale testing and performance of the product is the responsibility of the end user. For further information or classification of certain points to ensure that the user has made a proper assessment and reasonable precautions have been applied, please contact PT.INDOWIJAYA SAKTI TEGUH.