

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

# SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, CFR 1910.1200

## SECTION I: IDENTIFICATION

### MANUFACTURER's NAME

### EMERGENCY TELEPHONE NO.

HC&D, LLC

(808) 266-2672

### ADDRESS (Number, Street, City, State, & ZIP Code)

2344 Pahounui Drive, Honolulu, HI 96819

### CHEMICAL NAME & SYNONYMS

### TRADE NAME & SYNONYMS

-

Manufactured Fine & Coarse  
Aggregate

### CHEMICAL FAMILY

### FORMULA

-

N/A

## SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

### EXPOSURE LIMITS

INGREDIENT	CAS No.	MAX % by WT.	OSHA PEL (8-hr TWA) (mg/m <sup>3</sup> )	NIOSH REL (8-hr TWA) (mg/m <sup>3</sup> )
Silica, Crystalline Quartz	014808-60-7	4.7	10T (0.05R)	0.05R
Iron Oxide	01309-37-1	9.4	10T (5R)	5
Aluminum Oxide	01344-28-1	9.4	15T (5R)	-
Titanium Dioxide	13463-67-7	1.3	15T (5R)	10
Calcium Oxide	01305-78-8	9.4	5	2

## SECTION III: HAZARDOUS IDENTIFICATION

### EMERGENCY OVERVIEW

Manufactured Fine & Coarse  
Aggregate may cause irritation to the  
skin and/or eyes if direct contact is  
made.

### POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE



#### EYE CONTACT (ACUTE/CHRONIC)

Conjunctivitis (eye irritation); exposure  
to product may aggravate existing eye  
conditions.

#### INHALATION (ACUTE/CHRONIC)

Overexposure to dust may cause  
respiratory/pulmonary distress; repeated  
or prolonged inhalation of crystalline  
silica and/or respirable dust may  
aggravate existing respiratory/  
pulmonary disease(s) and/or  
dysfunctions.

#### SKIN CONTACT (ACUTE/CHRONIC)

Dermatitis (skin irritation); exposure to  
product may aggravate existing skin  
conditions.

#### INGESTION (ACUTE/CHRONIC)

Non-toxic

### THRESHOLD LIMIT VALUE

- Unless otherwise specified, limits are expressed as milligrams of ingredients per cubic meter of air (mg/m<sup>3</sup>), 8-hour time weighted averages (TWA).
- Other particulates: OSHA Permissible
- Exposure Limits (PEL) = 5 (Respirable dust, not otherwise regulated)
- NIOSH REL = 10 (Total particulates, not otherwise classified.)
- The respirable size is 6 microns or less.

## SECTION IV: FIRST AID MEASURES

EYE CONTACT	Irrigate eyes with water immediately.
INHALATION	Remove to fresh air.
SKIN CONTACT	Wash affected area with soap and water.
INGESTION	See doctor immediately.

*In all cases, contact physician if irritation persists.*

## SECTION V: FIREFIGHTING MEASURES

GENERAL HAZARD	None
FLASHPOINT & METHOD	Non-Flammable Solid
FLAMMABLE LIMITS	(N/A)
AUTO-IGNITION TEMPERATURE	(N/A)
FIREFIGHTING INSTRUCTIONS	(N/A)
FIREFIGHTING EQUIPMENT	(N/A)
HAZARDOUS COMBUSTION PRODUCTS	(N/A)

## SECTION VI: ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up for recovery or disposal; avoid generation of dust (wet material if necessary)

### WASTE DISPOSAL METHOD

Follow Federal, State, and Local regulations for disposal.

## SECTION VII: HANDLING AND STORAGE

### PRECAUTIONS NEED TO BE TAKEN IN HANDLING AND STORING:

- Use good housekeeping practices to reduce airborne dust.
- Use approved respirator and protective equipment when necessary.
- Wash exposed skin after task completion.

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

### REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### RESPIRATOR PROTECTION



Dust mask

#### VENTILATION

Yes

#### PROTECTIVE GLOVES



Leather / Rubber

#### PROTECTIVE CLOTHING



Long Sleeves

#### EYE PROTECTION



ANSI - approved industrial  
safety glasses w/side  
shields

#### OTHER

None

#### LOCAL EXHAUST [Mechanical (General)]

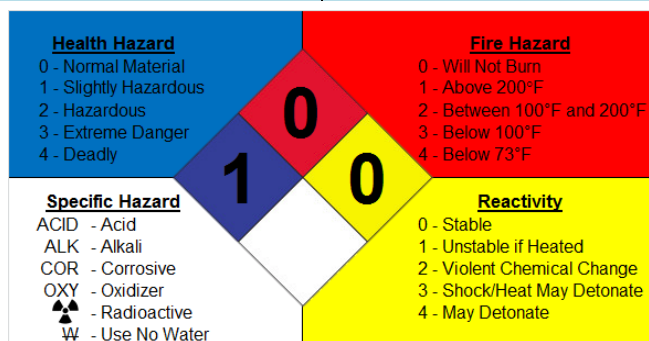
None

## SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE AND ODOR** Gray, fine to coarse grain particulate; no odor.

**ODOR THRESHOLD :**  
- **DETECTABLE** (N/A) - **RECOGNIZABLE** (N/A)

<b>pH-fresh (pH-solid = N/A)</b>	(N/A)	<b>VOLATILE BY VOL.</b>	(N/A)
<b>INITIAL BOILING PT. (°F)</b>	(N/A)	<b>VAPOR PRESS. (mm-Hg)</b>	(N/A)
<b>BOILING RANGE (°F)</b>	(N/A)	<b>VAPOR DENSITY (AIR = 1)</b>	(N/A)
<b>MELTING/FREEZING POINT (°F)</b>	2600	<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1)</b>	2.6-2.8
<b>FLASH POINT</b>	(N/A)	<b>SOLUBILITY IN WATER</b>	(N/A)
<b>EVAPORATION RATE</b>	(N/A)	<b>PARTITION COEFFICIENT n-octanol/water</b>	(N/A)
<b>FLAMMABILITY (SOLID/GAS)</b>	(N/A)	<b>DECOMPOSITION TEMPERATURE (°F)</b>	(N/A)
<b>UPPER/LOWER LIMITS</b>	(N/A)	<b>VISCOSITY</b>	(N/A)
<b>EXPLOSIVE LIMITS</b>	(N/A)	<b>AUTO-IGNITION TEMPERATURE (°F)</b>	(N/A)



## SECTION X: STABILITY AND REACTIVITY

**STABILITY:** **UNSTABLE** ☐ **CONDITIONS TO AVOID**  
**STABLE** ☒ None

**INCOMPATIBILITY [Material(s) to avoid]** None

**HAZARDOUS DECOMPOSITION PRODUCTS** None

## HAZARDOUS POLYMERIZATION

**CONDITIONS TO AVOID**  
**MAY OCCUR** ☐ None  
**WILL NOT OCCUR** ☒

## SECTION XI: TOXICOLOGICAL INFORMATION

**CONTAINS** Aluminum Oxide CAS # 01344-28-1

**RECOGNIZED** (N/A)

**SUSPECTED** Neurotoxicant (SARA Toxic Release Chemical)

Over-exposure can cause adverse effects on the nervous system (Neurotoxicity).

## SECTION XII: ECOLOGICAL INFORMATION

Eco-toxicity: No recognized unusual toxicity to plants or animals. For relevant physical and chemical properties, see Sections IX and X.

## SECTION XIII: DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Follow Federal, State, and Local regulations for disposal.

## SECTION XIV: TRANSPORT INFORMATION

Manufactured Fine & Coarse Aggregate is not a hazardous material under U.S. Department of Transportation (DOT) regulations. Subsequently, requirements for hazard class, identification number, and label text are not applicable.

## SECTION XV: REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200:** Manufactured Fine & Coarse Aggregate is considered by OSHA to be a "hazardous chemical" under this regulation and should be included in the employer's hazard communication program.

**CERCLA/SUPERFUND, 40 CFR 117 and 302:** Not Listed.

**SARA (Title III), SECTIONS 311 & 312 HAZARD CATEGORY:** This product has been reviewed according to the EPA Hazard Categories, made known under Sections 311 & 312 of the Superfund Amendment and Reauthorization Act of 1986, and is considered a hazardous toxic-release chemical.

**SARA (Title III), SECTIONS 313 INFORMATION:** This product contains substances (CAS #01344-28-1) subject to the reporting requirements of Section 313.

**TOXIC SUBSTANCE CONTROL ACT (TSCA):** Some constituents identified in Manufactured Fine & Coarse Aggregate are listed on the TSCA Inventory.

**FEDERAL HAZARDOUS SUBSTANCE ACT:** Manufactured Fine & Coarse Aggregate is a "hazardous substance" subject to statutes made known under the substance act.

**WHMIS INFORMATION:** Manufactured Fine & Coarse Aggregate is considered to be hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class E – Corrosive Material) and is therefore subject to the labeling and SDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

## SECTION XVI: OTHER INFORMATION

### ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
CAS No.	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CL	Ceiling Limit
DOT	U.S. Department of Transportation
>	greater than
<	less than
HEPA	High-Efficiency Particulate Air
HMIS	Hazardous Materials Information System
IARC	International Agency for Research on Cancer
LC <sub>50</sub>	Lethal Concentration – 50% of Population
LD <sub>50</sub>	Lethal Dose – 50% of Population
mg/m <sup>3</sup>	milligrams per cubic meter
MSHA	Mine Safety and Health Administration
N/A	Not Applicable
NFPA	National Fire Protection Agency
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
pH	negative log of hydrogen ion
PPE	Personal Protective Equipment
R	Respirable Particulate
RCRA	Resource Conservation and Recovery Act
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
T	Total Particulate
TDG	Transportation of Dangerous Good
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hour)
WHMIS	Workplace Hazardous Materials Information System

Information in this SDS is believed to be current and accurate at the time provided. It is the user's obligation to determine the conditions of safe use of this product.