

HDIP INC

SAFETY DATA SHEET

Endurable Concrete Hardener

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product name: Endurable Concrete Hardener

Product Use: Concrete Hardener

MSDS Prepared by: HDIP INC

Date prepared: 6-22-15

Supplier:

HDIP INC

20981 Yeoman Road

Bend, Oregon 97701

For emergency health, safety, and environmental information, call 800-910-3120

Section 2 – HAZARDS IDENTIFICATION

Not a hazardous substance per Regulation 29CFR 1910.1200

Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Silicon Dioxide

CAS 7631-86-9

Concentration—25 – 50%

Section 4 - FIRST-AID MEASURES

Inhalation: Move to fresh air.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists, seek medical attention.

Skin: Wash with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse.

Ingestion: Give large quantities of water. Get medical attention if irritation persists.

Section 5 - FIRE FIGHTING MEASURES

Flash Point: Will not flash

Flammability class: Not applicable

Flammability Limits in Air: Not determined.

Suitable Extinguishing Media: Not applicable

Special Firefighting Procedures: None

Unusual Fire Hazards: None

Advice to Firefighters: wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Spill: Absorb with an inert material and place in an appropriate waste disposal container.

Waste Disposal Method:

Sanitary landfill or sewer. Observe all environmental regulations, Federal, State, and

Local regulations.

THIS PRODUCT WHEN SPILLED OR DISPOSED OF IS A NON-HAZARDOUS WASTE AS DEFINED IN RCRA REGULATION (40CFR 261).

Section 7 - HANDLING AND STORAGE

Prevent all skin and eye contact. Avoid breathing vapors. Re-seal partially used containers. Wash with soap and water before eating or drinking. Keep in cool, dry, ventilated storage. Do not freeze. Keep containers tightly closed.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

20millions of particles per cubic foot of air

Time Weighted Average (TWA):(Z3)

0.8 mg/m³ Time Weighted Average (TWA):(Z3)

The exposure limit is calculated from the equation, $80/(\%SiO_2)$, using a value of 100% SiO₂.

Lower values of % SiO₂ will give higher exposure limits.

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Use impermeable gloves.

The rupture time and material thickness data are guideline values! Exact rupture time / material thickness data can be obtained from the protective glove manufacturer.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

Use impermeable gloves.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Slight, Tinted
Odor: Slight to none
Vapor Pressure: same as water
Vapor Density: not determined
Specific Gravity: 1.05 -1.11
pH: 9.0 - 10.5
Boiling Point: 100°C
Freezing Point: 0°C
Water Solubility: infinite
VOC Content: 0 g/l

Section 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Do not mix with other materials unless instructed by manufacturer. Do not freeze.
Incompatibilities with Other Materials: Acidic, Cationic, and salt materials may damage product.
Hazardous Decomposition Products: None

Section 11 - TOXOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity Acute toxicity estimate : > 5000 mg/kg
Method: Calculation method
carcinogenicity assessment Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

Toxicological information on components

Silicon dioxide, amorphous

Acute oral toxicity LD50 Rat: > 31600 mg/kg
Acute dermal toxicity LD50 Rabbit: > 2000 mg/kg

Section 12 - ECOLOGICAL INFORMATION

Toxicity

No ecotoxicological data is available for this product.

Toxicity in aquatic

invertebrates

EC50 Daphnia magna: > 10000 mg/l / 24 h

Test substance: Silicon dioxide, derived from chemical synthesis

Method: OECD 202

Toxicity to algae IC 50 Desmodesmus subspicatus (green algae): > 10000 mg/l / 72 h

Test substance: Silicon dioxide, derived from chemical synthesis

Persistence and degradability

Biodegradability inorganic product, Test of the biodegradability cannot be carried out.

Bioaccumulative potential

Bioaccumulation Not to be expected.

Mobility in soil

Mobility No remarkable mobility in soil is to be expected.

Other adverse effects

Further Information The data we have at our disposal do not necessitate identification concerning environmental hazard.

Section 13 - DISPOSAL CONSIDERATIONS

Waste Disposal : Dispose of container and unused contents in accordance with federal, state, and local requirements.

Special Precautions: None

RCRA: Non-hazardous

Section 14 - TRANSPORT INFORMATION

DOT / IATA: Not dangerous goods. Not regulated

Section 15 - REGULATORY INFORMATION

OSHA

If listed below, chemical specific standards apply to the product or components:

None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

No SARA Hazards

SARA Title III Section 313 Reportable Substance s

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

None listed

Section 16 - OTHER INFORMATION

HMIS Ratings

Health : 1

Flammability : 0

Physical Hazard : 0

NFPA Ratings

Health : 1

Flammability : 0

Reactivity : 0

Prepared on 6/23/15

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