CRHAW20

Hawthorn - 20 mesh

CRHAW20SC

Hawthorn - 20 mesh screened

CRHAW35

Hawthorn - 35 mesh

CRHAW50

Hawthorn - 50 mesh

CHRISTY MINERALS COMPANY \$33 Booneslick Road - High Hill. MO 63350 - USA

Telephone: 636-585-2214

October, 1991 June 2002 Prepared: Revised:

Material Safety Data Sheet

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SECTION I: MATERIAL IDENTIFICATION

Product Name:

Missouri Flint Clay, Hawthorn Bond® Clay, STKO®, Bauxite, Plastic

Fireclay, Diaspore Clay, Burley Clay, Rotary Kiln Fines, HR-1, HR-2, HR-3 Raw and Calcined Clay Minerals and Bauxitic Minerals

Product Description: Product Sizes:

All grain sizes (kiln run to -325 mesh)

Chemical Family:

Al₂O₃-SiO₇ (Aluminum Silicate); Al₂O₃ (Aluminum Oxide)

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL NAME	wt. %	C.A.S.#	ACGIH TLV	OSHAPEL '
Free Cristobalite	0-25	14464-46-1	0.05 mg/m^3	5/(%SiO ₂ +2)
Free Quartz	0-25	14808-60-7	0.10 mg/m ³	10/(%SiO ₂ +2)
Free Aluminum Oxide	0-70	1344-28-1	10 mg/m³	5 m g/m³
Free Titanium Dioxide	0-3.5	13463-67-7	10 mg/m³	15 mg/m³ (total dust)

(See Section VI for applicable Health Hazard Information.) (See Product Data Sheet for/specific product information.)

SECTION III: PHYSICAL DATA

Physical State:

Granular to powdery in appearance

Coefficient of Water/Oil Distribution: N/Ap Vapor Pressure & Density:

Color: Loose Fill Density:

Buff, tan, white, black, purple, gold, green, blue 50 - 120 lbs/cu.ft.

Odor and Odor Threshold:

N/Ap N/Ap N/Ap

Water Solubility: Volanies, %: Specific Gravity: Slightly soluble (raw) to insoluble in water (calcined) N/Ap

pH. Melting/Boiling/Freezing Point. Evaporation Rate:

N/Ap N/Av

SECTION IV: FIRE AND EXPLOSION DATA

Flammability:

Non-combustible.

1.90 - 3.25 g/cc

Upper & Lower Flammable Limit:

Auto Ignition Temp: Combustion Products:

N/Ap N/Ap

Special Fire Fighting Procedures: Sensitivity to Mechanical Impact/Static Discharge:

N/Ap N/Ap N/Ap

Means of extinction:

Use extinguishing media appropriate for surrounding media.

Flash Point:

N/Ap

SECTION V: REACTIVITY DATA

Stability: Conditions of Reactivity: Stable under normal conditions of use. Hazardous polymerization will not occur. Hazardous Decomposition Products: Incompatible Materials:

N/Ap N/Av

SECTION VI: HEALTH HAZARD & TOXICOLOGICAL INFORMATION

Exposure Limits: See Section II

Acute Effects

Irritancy of Product: Eye contact and inhalation are major routes of entry.

Inhalation: Inhalation of dust can cause irritation.

Skin: Prolonged or repeated skin contact can cause irritation.

Eves: Contact with eyes can cause irritation, especially when wet.

Ingestion: Not an expected route of entry.

Chronic Effects & Carcinogenicity

All Products: Excessive inhalation of dust from these products can cause silicosis. Crystalline silica is listed as an IARC Class I potential carcinogen. It has been determined that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and humans. These are chronic, slow developing diseases with symptoms usually delayed 10 years or more.

Reproductive effects, Teratogenicity, Mutagenicity, N/Av

Sensitization to Products: N/Av

Name of Toxicologically Synergistic Products: N/Av California Proposition 65 Warning

This product contains crystalline silica, a chemical known to the State of California to cause cancer,

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SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

Clean-up personnel need a NIOSH respirator approved for lung damaging dusts. Sweep spills and vacuum where necessary. Avoid generating dust.

Disposal: Dispose of waste in an approved landfill in accordance with federal, state, and local laws.

SECTION VIII: FIRST AID & SPECIAL PROTECTION INFORMATION

First Aid

Inhalation: Move victim to fresh air. If breathing difficulty continues, give oxygen & obtain medical help.

Skin Contact: Wash with soap and warm water. If irritation develops, consult a physician. Eve Contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Ingestion: If ingested, do not induce vomiting. Obtain medical attention.

Respiratory Protection: Provide adequate general ventilation. Provide workers with NIOSH respirators approved for jung damaging dusts when exposed to dust. Exposure levels over 100 times TLV (Section II) require air supplied respirators. Skin & Eye Protection: Gloves and safety goggles should be worn when exposed to excessive dust.

Ventilation: Provide local exhaust ventilation to meet exposure limits (Section II).

SECTION IX: SPECIAL PRECAUTIONS

Handling: Dust in the work area should be kept to a minimum and proper ventilation provided. Avoid inhalation of dust Avoid eye contact with materials.

Storage: No special storage conditions are required. Shipping: No special shipping information is required.

SECTION X: ABBREVIATIONS & REFERENCES

Abbreviations

N/Av: not available N/Ap: not applicable

IARĊ: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists TLV/TWA:

Threshold Limit Values/Time Weighted Average NIOSH: National Institute of Occupational Safety and Health

References

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