

MATERIAL SAFETY DATA SHEET



HYDRAFINE™

REVISION NUMBER: 1.1

REVISION DATE: 30/June/2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

PRODUCT NAME: HYDRAFINE™

MANUFACTURER: KaMin LLC
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EMERGENCY TELEPHONE: CHEMTREC: 800-424-9300 or 703-527-3887 International

INTERNET: www.kaminllc.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This is a non-combustible, odorless white powder.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Dust may cause mechanical irritation to eyes.

INHALATION: Inhalation of dust may cause respiratory tract irritation.

CARCINOGENICITY: This product is not listed as a carcinogen by the IARC, NTP or OSHA.

POTENTIAL ENVIRONMENTAL EFFECTS: Not considered to be harmful to aquatic life.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	WEIGHT %
Kaolin	1332-58-7	100

4. FIRST AID MEASURES

EYE CONTACT: Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.

INHALATION: Remove person to fresh air.

GENERAL ADVICE: In case of doubt or when symptoms persist, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Non-combustible. All extinguishing media can be used. Use suitable media appropriate for the surrounding fire.

UNSAFE EXTINGUISHING MEDIA None.

SPECIAL EXPOSURE HAZARDS: None.

SPECIAL PROTECTIVE EQUIPMENT: Firefighters should wear protective clothing and use equipment that is suitable for the materials involved in the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid dust formation. In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.

ENVIRONMENTAL PRECAUTIONS: This product does not present any particular risk to the environment. Refer to applicable national, state and local regulations prior to washing in drain.

CLEAN UP METHODS: Collect mechanically and or by flushing with water. Avoid dry sweeping. Use water spraying or ventilated vacuum system to prevent dust formation.

7. HANDLING AND STORAGE

HANDLING: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

STORAGE: Store in a dry area. Keep containers closed and protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

COMPONENTS	OSHA:	ACGIH:
Kaolin	15 mg/m ³ Total Dust 5 mg/m ³ Respirable Dust	2 mg/m ³ Respirable Dust

ENGINEERING CONTROLS: Use mechanical ventilation (dilution and local exhaust) to control exposure.

EYE PROTECTION: Safety glasses with side shields.

SKIN AND BODY PROTECTION: Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential.

HAND PROTECTION: Impervious gloves chemical resistant.

RESPIRATORY PROTECTION: In case of exposure to high levels of airborne dust, wear a respirator in compliance with national legislation.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice.

ENVIRONMENTAL EXPOSURE: This product does not present any particular risk for the environment. Refer to applicable national, state and local regulations prior to washing in drain.

9. PHYSICAL CHEMICAL PROPERTIES

APPEARANCE: White Powder

ODOUR: Odourless.

pH: 6-8 in aqueous solution

FLASH POINT: Non-combustible.

DENSITY: 2.6 g/cm³, 20° C

WATER SOLUBILITY: Insoluble

DECOMPOSITION TEMPERATURE: 1799° C

10. STABILITY AND REACTIVITY

STABILITY: Stable under ambient temperature (21°C) and pressure (760 mm Hg).

CONDITIONS TO AVOID: None

MATERIALS TO AVOID: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LD50 Oral (rat) > 5000 mg/kg LD50 Dermal (rat) > 5000 mg/kg

EYE IRRITATION: Non-irritating.

SKIN IRRITATION: Non-irritating.

SENSITIZATION: Does not cause sensitization.

CHRONIC TOXICITY: No evidence of mutagenic, reproductive or carcinogenic effects.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No information available.

MOBILITY: Inert material.

PERSISTENCE / DEGRABILITY: Non-degradable

BIOACUMULATIVE POTENTIAL: Inert Material

OTHER ADVERSE EFFECTS: None known.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with local, state and national regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated

15. REGULATORY INFORMATION

NFPA:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

HMIS:

HEALTH: 1

FLAMMABILITY: 0

PHYSICAL HAZARD: 0

HARMONIZED TARIFF CODE: 2507 0020

AUSTRALIA AICS: Kaolin 1332-58-7

CANADA DSL: Kaolin 1332-58-7

CHINA IECSC: Kaolin 1332-58-7

EUROPE EINECS: Kaolin 1332-58-7 Exempt. Naturally Occurring Substance.

JAPAN ENCS: Kaolin 1-20

KOREA KECI: Kaolin KE-21772

PHILIPPINES PICCS: Kaolin 1332-58-7

US TSCA: Kaolin 1332-58-7

SARA 311 / 312 HAZARD: None

SARA 313 SUBSTANCES: None

CERCLA RQ: None

CLEAN AIR ACT: The components of this product are not regulated under any of the following sections of the Clean Air Act: Section 111 Volatile Organic Compounds, Section 112 Hazardous Air Pollutants, Section 112 Statutory Air Pollutants, Section 112 High-Risk Pollutants, Section 112(r) Accidental Release Prevention Substances or Section 602 Ozone Depleting Substance. As a powder product, it would be regulated under Section 109 Criteria Pollutants particulates.

PROPOSITION 65: The product contains the following chemicals at levels known to the State of California to cause cancer:., Crystalline Silica.

CONEG: We certify that heavy metals defined as lead, mercury, cadmium and hexavalent chromium are not intentionally introduced to this product and with respect to lead, mercury, cadmium and hexavalent chromium, the incidental level of these four metals is less than 100 ppm.

FDA: May be used in accordance with the following 21 CFR Sections: 176.170, 176.180, 178.3297, 186.1256

16. OTHER INFORMATION

The information contained in this Safety Data Sheet to the best of KaMin LLC's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use.

END OF MATERIAL SAFETY DATA SHEET