



A FAMILY OF SOLUTIONS

MATERIAL SAFETY DATA SHEET

MICRAL® 9400

REVISION NUMBER: 1.7

REVISION DATE: 04/12/2007

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MICRAL® 9400

MANUFACTURER: J.M. Huber Corporation
1000 Parkwood Circle Suite 1000
Atlanta, GA 30339
Tel: 678-247-7300

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

INTERNET: www.hubermaterials.com

E-MAIL: solutions@huber.com

PRODUCT USE: Flame Retardants.

2. HAZARDS IDENTIFICATION

EYE IRRITATION: Non-irritating.

SKIN IRRITATION: Non-irritating.

INHALATION: Dust may irritate the respiratory system.

INGESTION: May cause discomfort if swallowed.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS NUMBER	%W/W
Aluminium Trihydrate	21645-51-2	100

4. FIRST AID MEASURES

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

SKIN CONTACT: Wash skin with soap and water.

INGESTION: Rinse mouth with water. Do not induce vomiting.

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.

INAPPROPRIATE EXTINGUISHING MEDIA: None.

UNUSUAL FIRE & EXPLOSION HAZARDS: None.

PROTECTIVE MEASURES: Use protective equipment appropriate for surrounding materials.

FLASH POINT: Non-combustible.

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:

COMPONENT(S)	CAN - Alberta - TWA	CAN - British Columbia - TWA	British Columbia OEL Notes
Respirable dust	3 mg/m ³	3 mg/m ³	Lung
Total dust	10 mg/m ³	10 mg/m ³	

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 AND CHEMICAL PROPERTIES

APPEARANCE: White powder

ODOUR: Odourless.

pH: 8,4-10,2 5% water suspension

FLASH POINT: Non-combustible.

DENSITY: 2,4 g/cm³, 20°C

WATER SOLUBILITY: Insoluble

DECOMPOSITION TEMPERATURE: 200° C

10. STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: None

MATERIALS TO AVOID: Strong Acids.

HAZARDOUS DECOMPOSITION PRODUCTS: None

11. TOXICOLOGICAL INFORMATION

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

EYE IRRITATION: Non-irritating.

SKIN IRRITATION: Non-irritating.

INHALATION: Dust may irritate the respiratory system.

INGESTION: May cause discomfort if swallowed.

SENSITIZATION: Does not cause sensitization.

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

12. ECOLOGICAL INFORMATION

ECOTOXICITY: EC50 (Fish) > 10000 mg/l EC50 (Daphnia > 10000 mg/l)

MOBILITY: Inert material.

PERSISTENCE / DEGRABILITY: Non-degradable

BIOACUMULATIVE POTENTIAL: Inert Material

OTHER ADVERSE EFFECTS: None known.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN NUMBER: None.
DOT : Not a dangerous substance.
IMO / IMDG : Not a dangerous substance.
ICAO / IATA : Not a dangerous substance.

15. REGULATORY INFORMATION

NFPA: **HEALTH: 1** **FLAMMABILITY: 0** **REACTIVITY: 0**

WHMIS: This is a WHMIS "controlled product." This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

HARMONIZED TARIFF CODE: 2828.3000

NATIONAL CHEMICAL INVENTORY LISTING:

AUSTRALIA AICS: Aluminum hydroxide 21645-51-2.

CANADA DSL/NDSL: Aluminum hydroxide 21645-51-2.

CHINA IECSC: Aluminum hydroxide 21645-51-2.

EUROPE EINECS: Aluminum hydroxide 244-492-7.

JAPAN ENCS: Aluminum hydroxide (1)-17.

KOREA KECI: Aluminum hydroxide KE-00980.

PHILIPPINES PICCS: Aluminum hydroxide 21645-51-2.

UNITED STATES TSCA: Aluminum hydroxide 21645-51-2.

16. OTHER INFORMATION

The information contained in this Safety Data Sheet is believed to be reliable. No guarantee is implied or expressed regarding the accuracy of this information or the use of the product since the conditions for use are beyond our control. Nothing contained herein should be construed as a recommendation to use this product in conflict with local, state or national regulations or existing patents covering any material or its use.

END OF SAFETY DATA SHEET