

Kao Specialties Americas LLC

243 Woodbine Street • PO Box 2316 • High Point, NC 27261

USA

Phone 336-884-2214 • Fax 336-884-8786

**Material Safety Data Sheet**

Effective Date: 07-08-2010

Supercedes: 05-04-2010

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME MIGHTY 21PSD
MSDS ID 264738

MANUFACTURER

KAO CHEMICALS GmbH
Kupferstrasse 1, D-46446
Emmerich 1, GERMANY
Phone: 011-49-2822-7110

DISTRIBUTOR

Kao Specialties Americas LLC
243 Woodbine Street
P. O. Box 2316
High Point, NC 27261
Telephone: 1-336-884-2214

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

II. COMPOSITION/INFORMATION ON INGREDIENTS**COMPONENT NAME****CAS NUMBER**

If this table is blank, then this product does not contain any regulated substances.

• See Section VIII for exposure guidelines and Section XV for State Right to Know Information

•

III. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**

APPEARANCE:

ODOR:

Avoid generation of airborne dust.

Yellowish brown solid

No odor

Hazardous Material Identification System (HMIS) Rating:

HEALTH

1

FLAMMABILITY

0

REACTIVITY

0

PERSONAL PROTECTION

D

Potential Health Effects

Eye

This product may produce mechanical eye irritation.

Skin Contact

Dust or powder may irritate the skin.

Ingestion

Not a likely route of entry.

Inhalation

Dust may be slightly irritating to respiratory tract.

Target Organs

No known effects.

Chronic Effects:

Carcinogenicity:

See Section XI.

IV. FIRST AID MEASURES

EYES:

Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.

SKIN:

For skin contact, wash immediately with soap and water. If necessary, seek medical attention.

INGESTION:

If the material is swallowed, get immediate medical attention or advice.

INHALATION:

Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.

NOTES TO PHYSICIAN:

Provide general supportive measures and treat symptomatically.

V. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

| | |
|------------------------------|--------------------|
| FLASH POINT: | >302 deg. F |
| METHOD: | Cleveland Open Cup |
| UPPER FLAMMABLE LIMIT: | Not Applicable |
| LOWER FLAMMABLE LIMIT: | Not Applicable |
| FLAMMABILITY CLASSIFICATION: | Not evaluated |

HAZARDOUS PRODUCTS OF COMBUSTION:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

PROPERTIES THAT COULD INCREASE FIRE OR EXPLOSION HAZARD:

No known hazards.

EXTINGUISHING MEDIA:

Use methods for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS:

Firefighters should wear full protective clothing including self contained breathing apparatus.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

| | | | |
|------------|---|--------------|---|
| Health | 1 | Flammability | 0 |
| Reactivity | 0 | Special | |

VI. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

SMALL SPILL

| | |
|------------------------|--|
| Containment Techniques | If sweeping of a contaminated area is necessary, use a dust suppressant agent. |
| Cleanup Procedures | Shovel the material into waste container. |
| Equipment | Dispose of spent absorbent in an approved industrial waste landfill. |
| Other Emergency Advice | No other spill procedures necessary. |

LARGE SPILL

| | |
|------------------------|---|
| Containment Techniques | Dike the spilled material, where this is possible. |
| Cleanup Procedures | Use sand or perlite or vermiculite as an absorbent for large spills of this material. |
| Equipment | Dispose of spent absorbent in an approved industrial waste landfill. |
| Other Emergency Advice | No other spill procedures necessary. |

Evacuation Procedure: Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering.

VII. HANDLING AND STORAGE

| | |
|-----------|---|
| Handling: | Do not get this material in your eyes, on your skin, or on your clothing. |
| Storage: | Keep this material in a cool, dark, well-ventilated place. |

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

| | |
|------------------------|--|
| EYE/FACE PROTECTION | Wear chemical goggles or a full face shield. |
| HAND PROTECTION | Use impervious gloves. |
| SKIN PROTECTION | Normal work clothing (long sleeved shirts and long pants) is recommended. |
| RESPIRATORY PROTECTION | A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure. |

EXPOSURE LIMITS:

| CHEMICAL NAME | CAS # | PERCENT | LIMITS | AGENCY |
|---|-------|---------|--------|--------|
| No limits established for this product. | | | | |

The following components are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

| Component | CAS # | Percent | Minimum Concentration |
|---|-------|---------|-----------------------|
| No limits established for this product. | | | |

IX. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|----------------------------|
| APPEARANCE: | Yellowish brown solid |
| ODOR: | No odor |
| SOLUBILITY IN WATER: | Soluble |
| pH: | 6.0 - 8.0 (5% solution) |
| SPECIFIC GRAVITY: | 0.55 - 0.59 g/mL at 25 deg |
| VOLATILES, % BY WEIGHT: | Not evaluated |
| FREEZE POINT (DEGREES C) | 0 |
| MELTING POINT (DEGREES C) | Not tested |
| VOLATILE ORGANIC COMPOUNDS(%VOC'S) | 0.000 |
| VAPOR PRESSURE: | No data available |

X. STABILITY AND REACTIVITY

| | |
|---------------------------|---------------------------------|
| CHEMICAL STABILITY: | Stable under normal conditions. |
| CONDITIONS TO AVOID: | None known |
| HAZARDOUS DECOMPOSITION | None known. |
| PRODUCTS: | |
| HAZARDOUS POLYMERIZATION: | Will not occur. |

XI. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

| | |
|-----------------------------------|---|
| EYE EFFECTS | This product may produce mechanical eye irritation. |
| SKIN EFFECTS | Dust or powder may irritate the skin. |
| ACUTE ORAL EFFECTS (INGESTION) | Not a likely route of entry. |
| ACUTE INHALATION EFFECTS | Dust may be slightly irritating to respiratory tract. |
| SUBCHRONIC EFFECTS | No known effects. |

CHRONIC EFFECTS

| | |
|--|-------------------------------------|
| TERATOLOGY | No data available for this product. |
| REPRODUCTIVE AND DEVELOPMENTAL TOXICITY | No information available. |

CARCINOGENICITY

| CHEMICAL NAME | DATA | AGENCY |
|---|------|--------|
| No limits established for this product. | | |
| None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists. | | |
| None of the components of this product are listed on the ACGIH Carcinogens List. | | |
| None of the components of this product are listed on the NTP Known or Suspected Carcinogens Lists. | | |

LD50 ORAL for Product

No data available

SELECTED LD50's for ingredients

Chemical NameLD50/LC50

No data available

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No information available.**OTHER TOXICOLOGICAL INFORMATION:****ROUTES OF ENTRY:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.**XII. ECOLOGICAL INFORMATION**

| | |
|-------------------------------------|-------------------------------------|
| AQUATIC TOXICITY | No data available |
| ECOTOXICOLOGICAL INFORMATION | None determined |
| ENVIRONMENTAL INFORMATION | No data available for this product. |
| BIOLOGICAL OXYGEN DEMAND (BOD5),g/g | No data available |
| CHEMICAL OXYGEN DEMAND (COD), g/g | No data available |

XIII. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Waste Description: | Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. |
| General Disposal | Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations. |
| Considerations: | |
| Disposal of Empty Container / | Dispose of waste material according to Local, State, Federal, and |
| Container Rinsate: | Provincial Environmental Regulations. |

XIV. TRANSPORTATION INFORMATION**DOT SHIPPING INFORMATION**

| | |
|-------------------------------|---|
| Proper Shipping Name | Non-hazardous material |
| UN/NA Number | Not applicable |
| Hazard Class | Not applicable |
| Packing Group | Not applicable |
| Reportable Quantity (RQ lbs) | No reportable quantity for this product |
| Shipping Name, if RQ shipment | Not applicable |
| Emergency Response Guidebook | Not applicable |

INTERNATIONAL INFORMATION

| | |
|-------------------------|-----------------------------|
| | PROPER SHIPPING NAME |
| IMO | Non-hazardous material |
| IATA/ICAO | Non-hazardous material |
| Marine Pollutant | None |

XV. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT: This product is listed on the U.S. EPA TSCA Inventory.

TSCA Exporting Requirements: No limits established for this product.

INTERNATIONAL CHEMICAL INVENTORIES:

All of the components of this product are listed on the following chemical inventories:

| | |
|---------------------|---------------|
| DSL (Canada) | Yes |
| NDSL (Canada) | Not evaluated |
| ENCS (Japan) | Yes |
| EINECS (Europe) | Yes |
| ELINCS (Europe) | Not evaluated |
| IECSC (China) | Yes |
| PICCS (Philippines) | No |
| ECL (Korea) | No |
| AICS (Australia) | Yes |

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III;

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APP. A:

| EHS Components | CAS Number | Percent | TPQ lbs and RQ |
|---|-------------------|----------------|-----------------------|
| No limits established for this product. | | | |

| 313 Components | CAS Number | Percent | Reporting Limit |
|---|-------------------|----------------|------------------------|
| No limits established for this product. | | | |

SECTION 311/312 CLASSIFICATION:

| | |
|-----------|-----|
| Acute: | Yes |
| Chronic: | No |
| Fire: | No |
| Pressure: | No |
| Reactive: | No |

OTHER FEDERAL REGULATIONS

The following chemical components are identified under the Clean Air Act HON-Rule for SOCM I
Chemicals:

| Chemical Name | CAS Number |
|-------------------------|-------------------|
| No regulated components | |

The following chemical components are identified under the Clean Air Act (VOC's in SOCM I)

| Chemical Name | CAS Number |
|-------------------------|-------------------|
| No regulated components | |

The following chemical components are identified under the Clean Air Act as Hazardous Air
Pollutants (HAP's):

| Chemical Name | CAS Number |
|-------------------------|-------------------|
| No regulated components | |

The following chemical components are identified under the Clean Air Act as HON-Rule Hazardous
Air Pollutants (HAP's):

| Chemical Name | CAS Number |
|-------------------------|-------------------|
| No regulated components | |

STATE RIGHT TO KNOW INFORMATION:

The components of this product are listed on the following State Right to Know Lists:

| COMPONENT NAME | CAS # | STATE LIST |
|-----------------------|--------------|-------------------|
|-----------------------|--------------|-------------------|

None of the components of this product are listed on the California Proposition 65 lists.

None of the components of this product are listed on the following State Right to Know Lists:

FL,MA,MI,MN,NJ,PA.

XVI. ADDITIONAL INFORMATION

Harmonized Tariff Number: Not evaluated

The information below is believed to be accurate but is not warranted to be, whether origination with the manufacturer, or not. Recipients are advised to confirm in advance that the information is current and applicable to their situation. No warranty is expressed or implied. Since conditions of use are beyond the manufacturer's control, user assumes all risk and responsibility.

Fixed Section 9.

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MSDS APPROVED BY: Patrick Simcox, Health, Safety & Environmental Manager

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