## SAFETY DATA SHEET

## 1. Identification

Material name: EUCO-SPEED MP
Material: 083B 50
Recommended use and restriction on use
Recommended use: Pigment
Restrictions on use: Not known.
Manufacturer/Importer/Supplier/Distributor Information
EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD
CLEVELAND OH 44110
US
Contact person: EH\&S Department
Telephone:
216-531-9222
Emergency telephone number:
1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

## Hazard Classification

## Health Hazards

Carcinogenicity
Toxic to reproduction
Specific Target Organ Toxicity Repeated Exposure

## Target Organs

1. Lung

Unknown toxicity - Health
Acute toxicity, oral 89.24 \%
Acute toxicity, dermal 89.95 \%
Acute toxicity, inhalation, vapor 100 \%
Acute toxicity, inhalation, dust $99.47 \%$ or mist

## Label Elements

Hazard Symbol:


| Signal Word: | Danger |
| :--- | :--- |
| Hazard Statement: | May cause cancer. <br> May damage fertility or the unborn child. <br> Causes damage to organs through prolonged or repeated exposure. |
| Precautionary <br> Statements | Obtain special instructions before use. Do not handle until all safety <br> precautions have been read and understood. Use personal protective <br> equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. <br> Wash thoroughly after handling. Do not eat, drink or smoke when using this <br> product. |
| Response: | IF exposed or concerned: Get medical advice/attention. |
| Storage: | Store locked up. <br> Disposal: |
|  | Dispose of contents/container to an appropriate treatment and disposal <br> facility in accordance with applicable laws and regulations, and product <br> characteristics at time of disposal. |
| None. |  |

## 3. Composition/information on ingredients

## Mixtures

| Chemical Identity | CAS number | Content in percent (\%)* |
| :--- | :--- | :--- |
| Crystalline Silica (Quartz)/ <br> Silica Sand | $14808-60-7$ | $50-<100 \%$ |
| Magnesium oxide | $1309-48-4$ | $5-<10 \%$ |
| Silica, fused | $60676-86-0$ | $5-<10 \%$ |
| Aluminum oxide | $1344-28-1$ | $0.1-<1 \%$ |
| Calcium oxide | $1305-78-8$ | $0.1-<1 \%$ |
| Iron oxide | $1309-37-1$ | $0.1-<1 \%$ |
| Boric acid | $10043-35-3$ | $0.1-<0.3 \%$ |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.


## 4. First-aid measures

| Ingestion: | Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. |
| :--- | :--- |
| Inhalation: | Move to fresh air. |
| Skin Contact: | Remove contaminated clothing and wash the skin thoroughly with soap and <br> water after work. |
| Eye contact: | Rinse immediately with plenty of water. |

## Most important symptoms/effects, acute and delayed <br> Symptoms: May cause skin and eye irritation. <br> Indication of immediate medical attention and special treatment needed <br> Treatment: Symptoms may be delayed.

## 5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing media

Suitable extinguishing Use fire-extinguishing media appropriate for surrounding materials. media:

Unsuitable extinguishing media:

Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical:

Special protective equipment and precautions for firefighters
Special fire fighting No data available. procedures:

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Methods and material for containment and cleaning up:

Notification Procedures:

Environmental Precautions:

No data available.

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

## Precautions for safe handling:

## Conditions for safe storage, including any incompatibilities:

Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Store locked up.

## 8. Exposure controls/personal protection

## Control Parameters

## Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
| :---: | :---: | :---: | :---: |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | 0.025 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable. | TWA | 2.4 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
|  | TWA | 0.1 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust. | TWA | $0.05 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016) |
|  | $\begin{aligned} & \text { OSHA_AC } \\ & \mathrm{T} \end{aligned}$ | $0.025 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust. | PEL | $0.05 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016) |
| Magnesium oxide - Inhalable fraction. | TWA | $10 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (2011) |
| Magnesium oxide - Total particulate. | PEL | $15 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Magnesium oxide Respirable fraction. | TWA | $5 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
|  | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Magnesium oxide - Total dust. | TWA | $15 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
|  | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Silica, fused | TWA | 20 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
|  | TWA | 0.8 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Aluminum oxide - Respirable fraction. | TWA | $1 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (2011) |
|  | PEL | $5 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total dust. | PEL | $15 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |


| Aluminum oxide - Respirable fraction. | TWA | $5 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| :---: | :---: | :---: | :---: |
| Aluminum oxide - Total dust. | TWA | $15 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
|  | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Aluminum oxide - Respirable fraction. | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Calcium oxide | TWA | $2 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (2011) |
|  | PEL | $5 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Iron oxide - Respirable fraction. | TWA | $5 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (2011) |
| Iron oxide - Fume. | PEL | $10 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Iron oxide - Total dust. | TWA | $15 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
|  | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Iron oxide - Respirable fraction. | TWA | $5 \mathrm{mg} / \mathrm{m} 3$ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
|  | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Boric acid - Inhalable fraction. | TWA | $2 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (02 2012) |
|  | STEL | $6 \mathrm{mg} / \mathrm{m} 3$ | US. ACGIH Threshold Limit Values (02 2012) |


| Chemical name | Type | Exposure Limit Values | Source |
| :---: | :---: | :---: | :---: |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | 0.025 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | $0.10 \mathrm{mg} / \mathrm{m} 3$ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| Crystalline Silica (Quartz)/ <br> Silica Sand - Respirable dust. | TWA | 0.1 mg/m3 | Canada. Quebec OELs. (Ministry of Labor Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Magnesium oxide - <br> Respirable dust and/or fume. $\text { - as } \mathrm{Mg}$ | STEL | $10 \mathrm{mg} / \mathrm{m} 3$ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Magnesium oxide - Inhalable fume. | TWA | $10 \mathrm{mg} / \mathrm{m} 3$ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Magnesium oxide Respirable dust and/or fume. - as Mg | TWA | $3 \mathrm{mg} / \mathrm{m} 3$ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Magnesium oxide - Inhalable fraction. | TWA | $10 \mathrm{mg} / \mathrm{m} 3$ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Magnesium oxide - Fume. as Mg | TWA | $10 \mathrm{mg} / \mathrm{m} 3$ | Canada. Quebec OELs. (Ministry of Labor Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Silica, fused - Respirable fraction. | TWA | 0.1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| Silica, fused - Respirable dust. | TWA | 0.1 mg/m3 | Canada. Quebec OELs. (Ministry of Labor Regulation Respecting the Quality of the Work Environment) (12 2008) |

## Appropriate Engineering <br> Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

## Individual protection measures, such as personal protective equipment

## General information:

Eye/face protection:
Wear goggles/face shield.

## Skin Protection

Hand Protection:
Other:
Respiratory Protection:

Hygiene measures:

Use suitable protective gloves if risk of skin contact.
No data available.

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## 9. Physical and chemical properties

## Appearance

Physical state: solid
Form: Powder
Color: Gray
Odor: Odorless

Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: No data available.
Evaporation rate: No data available.
Flammability (solid, gas): No
Upper/lower limit on flammability or explosive limits
Flammability limit - upper (\%): No data available.
Flammability limit - lower (\%): No data available.
Explosive limit - upper (\%): No data available.
Explosive limit - lower (\%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: 2.75
Solubility(ies)
Solubility in water: Miscible with water.
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

## 10. Stability and reactivity

| Reactivity: | No data available. |
| :--- | :--- |
| Chemical Stability: Material is stable under normal conditions. <br> Possibility of hazardous <br> reactions: No data available. <br> Conditions to avoid: Avoid heat or contamination. <br> Incompatible Materials: No data available. <br> Hazardous Decomposition Thermal decomposition or combustion may liberate carbon oxides and <br> Products: other toxic gases or vapors.  |  |

## 11. Toxicological information

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Information on likely routes of exposure
    Inhalation: mucus membranes.
Eye contact: Eye contact is possible and should be avoided.
Ingestion: May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.
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                                    In high concentrations, vapors, fumes or mists may irritate nose, throat and
    Skin Contact: Moderately irritating to skin with prolonged exposure.

Information on toxicological effects
Acute toxicity (list all possible routes of exposure)
Oral
Product: $\quad$ ATEmix: $3,868.17 \mathrm{mg} / \mathrm{kg}$
Dermal
Product: $\quad$ Not classified for acute toxicity based on available data.
Specified substance(s):
Calcium oxide
LD 50 (Rabbit): > 2,500 mg/kg

Boric acid
LD 50 (Rabbit): > 2,000 mg/kg

## Inhalation

Product: $\quad$ Not classified for acute toxicity based on available data.
Specified substance(s):
Aluminum oxide
LC 50 (Rat): $7.6 \mathrm{mg} / \mathrm{I}$

Calcium oxide
LC 50 (Rat): $40 \mathrm{mg} / \mathrm{m} 3$

Boric acid
LC 50 (Rat): > 2.12 mg/l

## Repeated dose toxicity

Product: No data available.

| Skin Corrosion/Irritation <br> Product: | No data available. |
| :--- | :--- |
| Specified substance(s): <br> Aluminum oxide | in vivo (Rabbit): Not irritant Experimental result, Key study <br> Calcium oxide |
| in vivo (Rabbit): Irritating Read-across from supporting substance (structural <br> analogue or surrogate), Key study |  |
| Iron oxide | in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study |
| Boric acid | Irritating <br> in vivo (Rabbit): Not classifiable Experimental result, Key study |

Serious Eye Damage/Eye Irritation
Product: No data available.
Specified substance(s):
Aluminum oxide Rabbit, 24 hrs: Not irritating

## Respiratory or Skin Sensitization

Product:
No data available.

## Carcinogenicity

Product: No data available.

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica Overall evaluation: Carcinogenic to humans.
(Quartz)/ Silica
Sand

US. National Toxicology Program (NTP) Report on Carcinogens:
Crystalline Silica Known To Be Human Carcinogen.
(Quartz)/ Silica
Sand
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
Crystalline Silica
(Quartz)/ Silica Cancer
Sand

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Germ Cell Mutagenicity
    In vitro
        Product: No data available.
    In vivo
    Product: No data available.
Reproductive toxicity
    Product:
    May damage fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure
    Product: No data available.
Specific Target Organ Toxicity - Repeated Exposure
    Product: No data available.
    Target Organs
    Specific Target Organ Toxicity - Repeated Exposure: Lung
Aspiration Hazard
    Product: No data available.
Other effects: No data available.
```


## 12. Ecological information

## Ecotoxicity:

Acute hazards to the aquatic environment:
Fish Product: No data available.

Aquatic Invertebrates
Product: No data available.
Chronic hazards to the aquatic environment:

## Fish

Product: No data available.

Aquatic Invertebrates
Product:
No data available.

| Toxicity to Aquatic Plants Product: | No data available. |
| :---: | :---: |
| Specified substance(s): <br> Boric acid | LC 50 (Waterweed (Elodea canadensis), 21 d ): $5 \mathrm{mg} / \mathrm{l}$ Mortality |
| Persistence and Degradability |  |
| Biodegradation Product: | No data available. |
| BOD/COD Ratio Product: | No data available. |
| Bioaccumulative potential Bioconcentration Factor (BCF) |  |
| Product: | No data available. |
| Partition Coefficient n-octanol / water (log Kow) |  |
| Mobility in soil: | No data available. |
| Other adverse effects: | No data available. |

## 13. Disposal considerations

| Disposal instructions: | Dispose of waste at an appropriate treatment and disposal facility in <br> accordance with applicable laws and regulations, and product <br> characteristics at time of disposal. |
| :--- | :--- |
| Contaminated Packaging: | No data available. |

## 14. Transport information

TDG:
Not Regulated

## CFR / DOT:

Not Regulated

IMDG:
Not Regulated

## 15. Regulatory information

## US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity
Crystalline Silica
(Quartz)/ Silica Sand

OSHA hazard(s)
kidney effects
lung effects
immune system effects Cancer

CERCLA Hazardous Substance List (40 CFR 302.4):
Chemical Identity Reportable quantity
Sodium tripolyphosphate 5000 lbs .
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Delayed (Chronic) Health Hazard
Carcinogenicity
Toxic to reproduction
Specific Target Organ Toxicity - Repeated Exposure
SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.
SARA 304 Emergency Release Notification
Chemical Identity $\quad$ Reportable quantity
Sodium tripolyphosphate 5000 lbs .
SARA 311/312 Hazardous Chemical
Chemical Identity Threshold Planning Quantity
Crystalline Silica (Quartz)/ 10000 lbs
Silica Sand
Magnesium oxide 10000 lbs
Silica, fused 10000 lbs
Aluminum oxide $\quad 10000$ lbs
Calcium oxide 10000 lbs
Iron oxide 10000 lbs
Boric acid 10000 lbs
SARA 313 (TRI Reporting)
Chemical Identity
Monoammonium
phosphate
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

## US State Regulations

## US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.
Crystalline Silica (Quartz)/ Carcinogenic. 092011
Silica Sand
US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Crystalline Silica (Quartz)/ Silica Sand
Magnesium oxide
Silica, fused
US. Massachusetts RTK - Substance List
Chemical Identity
Crystalline Silica (Quartz)/ Silica Sand
Magnesium oxide
Silica, fused

## US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Crystalline Silica (Quartz)/ Silica Sand
Magnesium oxide
Silica, fused

## US. Rhode Island RTK

Chemical Identity
Crystalline Silica (Quartz)/ Silica Sand
Magnesium oxide
Silica, fused

## International regulations

Montreal protocol
not applicable
Stockholm convention
not applicable
Rotterdam convention
not applicable
Kyoto protocol
not applicable

VOC:

Regulatory VOC (less water and : < $5 \mathrm{~g} / \mathrm{l}$ exempt solvent)
VOC Method 310 : 0.00 \%

## Inventory Status:

Australia AICS


China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.
16.Other information, including date of preparation or last revision

## Version \#:

## Further Information:

Disclaimer:
2.0

No data available.

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

