KIMBALL MIDWEST
Specializing in Materials Management

Safety Data Sheet (SDS)

Revision Date: 5/30/16

1 Product and Company Information

Supplier: Kimball Midwest
4800 Roberts Road
Columbus, OH 43228

Contact: Kimball Midwest
Phone: 800-233-1294
Product Number: 87-084
Product Name: Crocus Cloth
Revision Date: 5/30/15
Version 1: 1
CAS Number: Mixture
Product Use: Abrasive Product
Emergency Phone: Chemtrec 800-424-9300

2 Hazards Identification

GHS Signal Word: Warning
GHS Classifications: Health: Serious Eye Damage/Eye Irritation 2B
Hazard Statements: Causes eye irritation
Precautionary Statements:
Avoid breathing dust produced while using this product.
Wash face, hands and any exposed skin thoroughly after handling.
Use only outdoors or in a well ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Do NOT rub. Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Get medical advice/attention.
Store in a dry place.

3 Composition/Information on Ingredients

Ingredients

CAS #	Percentage	Chemical Name
N/A	45-55%	Cloth or Paper
N/A	10-30%	Animal Glue Bond
1309-37-1	15-25%	Iron Oxide (Fe2O3)
14808-60-7	1-5%	Silica, Crystalline Quartz

4 First Aid Measures

Inhalation: Blow nose to remove substance from nasal passages. Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: No need for first aid is anticipated for non-abrasive exposure to product. If reddening develops and/or persists, obtain medical attention.

Eye Contact: Do NOT rub eyes. Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If irritation persists, obtain medical attention.

Ingestion: No need for first aid is anticipated. If symptoms develop, obtain medical attention.

Most important symptoms and effects, both acute and delayed:
The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.
Prolonged inhalation of Silica, Crystalline Quartz dust may result in silicosis. Symptoms include disabling pulmonary fibrosis with fibrotic changes and miliary nodules in the lungs, shortness of breath, dry cough, emphysema, shallow breathing and susceptibility to tuberculosis. Advanced stages, in chronic exposure cases, include symptoms of reduced appetite, pleuritic pain and incapacitation. Advanced stages of silicosis may result in death due to cardiac failure and destruction of lung tissue.
Acute and chronic symptoms are associated with respirable particles of 3-4 um over repeated, prolonged periods of time. Prolonged inhalation of Iron Oxide (Fe2O3) dust may result in siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiological impairment. Siderosis can be observed in x-rays with the lungs having a mottled appearance.

Indication of any immediate medical attention and special treatment needed: No data available.

5 Fire Fighting Measures

Flammability:	Not Classified
Flash Point:	DNA
Flash Point Method:	DNA
Burning Rate:	No data Available
Autoignition Temp:	No data Available
LEL:	DNA
UEL:	DNA

Product is flammable when exposed to direct flame. During proper, recommended use of this product, no flammability hazard exists.

Extinguishing Media:
Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

SpecialHazards Arising From the Substance or Mixture:
Carbon Oxides
Iron Oxides
Silicon Oxides

Advice for Firefighters:
Firefighters should wear full-face, positive-pressure respirators.

Further Information:
If incinerated, may release toxic fumes.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment, including dust respirator. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions:
No special environmental precautions required.

Methods and materials for containments and cleaning up:
Pick up and arrange disposal without creating dust. Sweep up, shovel or collect spillage and place material into suitable container for disposal. Inspect product for torn or damaged areas. Do not use if product is torn or damaged. Dispose of contaminated material according to Section 13. Ensure adequate ventilation.

Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

7 Handling and Storage

Handling Precautions: Ensure adequate ventilation.
Avoid breathing of dust created while sanding, grinding or machining – use dust Respirator while using product. Avoid contact with skin, eyes and clothing.
Damaged product can break apart during use and cause serious bodily injury, specifically to the eyes. Use safety glasses while using product.
Check product for damages such as tears or cracks prior to use. Do not use damaged product.
Comply with RPM rating specified on this product.
Comply with ANSI 87.1-2010 Safety Requirements for the Use, Care and Protection of Abrasive Wheels (if applicable).
Combustible dust may be formed as a result of using this product. Take care to not let generated dust accumulate.

Accumulated dust may present an explosive hazard when dispersed in sufficient concentration while near an ignition source.
Collect dust and dispose of regularly.

Storage Requirements: Keep away from heat, sparks and flames.
Store in a dry place – keep away from moisture.
Store at temperatures between 40-90F at 30-80% relative humidity.
Store away from strong acids, strong oxidizing agents, chloroformates and hydrogen fluoride.

8	Exposure Controls/Person Protection

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip: Eye/face protection: When using material use safety glasses, gloves, and dust respirator according to HMIS PP, E. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handling material with gloves is not required, but strongly recommended in order to prevent accidental secondary contact with eyes. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and practices.

Body Protection: Safety glasses, gloves and dust respirator are recommended. Type of protective equipment should be selected based on ventilation conditions and other conditions of use of this material.

Respiratory protection: Use a NIOSH/MSHA dust mask according to 24 CFR 1910.134. Full-face dust respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure: No special requirements are necessary.

Components with workplace control parameters:

Component(s): Animal Glue Bond; Iron Oxide (Fe2O3; Silica, Crystalline Quartz

CAS No(s): N/A; 1309-37-1; 14808-60-7
USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 15.0 mg/m3 (as total dust)
USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 5.0 mg/m3 (as respirable fraction)
USA OSHA Table Z-1 Limits for Air Contaminants - 1910-1000 (TWA): 10.0 mg/m3 (as total dust)
USA OSHA Table Z-1 Limits for Air Contaminants - 1910-1000 (TWA): 5.0 mg/m3 (as respirable fraction)
USA ACGIH (TWA/TLV): 0.025 mg/m3
USA NIOSH (TWA): 10.0 mg/m3 (as total dust)
USA NIOSH (TWA): 5.0 mg/m3 (as respirable fraction)

Biological occupational exposure limits:	Contains no substances with biological occupational exposure limits values.

9 Physical and Chemical Properties

Appearance	Cloth or paper coated with abrasive material		Odor	Odorless
Physical State	Solid		Molecular Formula	Mixture
Odor Threshold	DNA		Solubility	DNA
Particle Size	DNA		Softening Point	DNA
Spec Grav/Density	DNA		Percent Volatile	DNA
Viscosity	DNA		Heat Value	DNA
Sat. Vap Cone	DNA		Freezing/Melting Point	DNA
Boiling Point	DNA		Flash Point	DNA
Flammability	Not classified		Octanol	DNA
Partition Coefficient	DNA		Vapor Density	DNA
Vapor Pressure	DNA		VOC	DNA
pH	DNA		Bulk Density	DNA
Evap rate	DNA		Auto-Ignition Temp	DNA
Molecular Weight	DNA		UFL/LFL	DNA
Decomp Temp	DNA			

10 Stability and Reactivity

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources and moisture.
Materials to Avoid:	Strong acids, strong oxidizing agents, Chloroformates and Hydrogen Fluoride.
Hazardous Decomposition:	Carbon Oxides, Iron Oxides and Silicon Oxides.
Hazardous Polymerization:	Will not occur.

11	Toxicological Information

Component(s): Iron Oxide (Fe2O3); Silica, Crystalline Quartz
CAS No(s): 1309-37-1; 14808-60-7
Acute Toxicity:
LDLo Intratracheal - Rat: 200 mg/kg
LDLo Intravenous - Rat: 90 mg/kg
LDLo Intravenous - Mouse: 40 mg/kg
LCLo Inhalation - Human: 0.300 mg/m3 (10 y, Silica, Crystalline Quartz)
LCLo Inhalation - Rat: 0.500 mg/m3 (24 h, Iron Oxide (Fe2O3))

Skin Corrosion/Irritation: Skin - Human: Causes irritation. Mechanical irritation (abrasion) may also cause skin irritation.

Serious Eye Damage/Eye Irritation: The product itself does no present hazards. Dust created by grinding, sanding or machining may cause eye irritation.

Respiratory or Skin Sensitation: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:
This product is or contains a component that is classifiable as to its carcinogenicity by the IARC, ACGIH, NTP or OSHA (Silica, Crystalline Quartz) and a component that is not classifiable as to its carcinogenicity by the IARC, ACGIH, NTP or OSHA (Iron Oxide (Fe2O3)). Iron Oxide (Fe2O3) is shown to be an equivocal tumorigenic agent by RTECS criteria (causing tumors at site or application) in rats via subcutaneous exposures.
IARC: 1 - Group 1: Carcinogenic to humans (Silica, Crystalline Quartz); 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Iron Oxide (Fe2O3)).
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: Known to be a human carcinogen (Silica, Crystalline Quartz).
OSHA: No component of this
Reproductive Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: Respiratory system: The product itself does not present hazards. Dust created by grinding, sanding or machining may cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure: Respiratory system: May cause damage to the respiratory system through prolonged or repeated exposure.

Aspiration Hazard: No data available.

Additional Information:
Component: Iron Oxide (Fe2O3); RTECS: NO7400000
Component: Silica, Crystalline Quartz; RTECS: VV7330000

12 Ecological Information

Component(s): Iron Oxide (Fe2O3); Silica, Crystalline Quartz
CAS No(s): 1309-37-1; 14808-60-7

Toxicity:

Toxicity to fish:
No data available.

Toxicity to daphnia and other aquatic invertebrates:
No data available.

Persistence and Degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in Soil: No data available.
Results of PBT and vPvB assessment: Not required/conducted.
Other Adverse Effects:
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13 Disposal Considerations

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material. Consult all applicable authorities and regulations to ensure proper classification. Any abraded material remaining on used product (from the substrate being abraded) may need to be considered as a factor in the disposal classification, method or handling of used product.

Contaminated Packaging: Dispose of as unused product.

14 Transport

DOT (US) Non-regulated material
IMDG Non-regulated material
IATA Non-regulated material
IMO Non-regulated material
Special Shipping Information:
WHMIS Controlled Product Class D2B

15 Regulatory Information

COMPONENT / (CAS/PERC) / CODES
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*Iron Oxide (Fe2O3) (1309371 15-25%) MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR

*Silica, Crystalline Quartz (14808607 1-5%) MASS, NJHS, NRC, OSHAWAC, PA, PROP65, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16	Other Information

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that the supplier believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of the supplier's control, the supplier makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.