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January 2, 2020

## MATERIAL SAFETY DATA SHEET

Product Code: CHB, CHSB2, CHSB2C, 54.162

### WOOD DUST HARDWOODS & SOFTWOODS

Examples, Oak, Maple, Hickory, Beech, Poplar, Birch, Mahogany, Walnut, Ash, Pine, etc;  
OHS88900

CERCLARATINGS (Scale 0-3) Health = 3, Fire = 3 Reactivity = 0 = Persistence = 0

NEPA RATINGS (Scale 0-4) Health = 3 = 3 = Reactivity = 0

### COMPONENTS AND CONTAININANTS

COMPONENT: Wood Dust (General) Hardwoods, Softwoods, Special Note:  
Western Red Cedar  
PERCENT: 100.0

EXPOSURE LIMITS: Hardwood & Softwood Dust

### DUST - HARDWOOD & SOFTWOOD:

Softwood: OSHA PEL \* - 15mg/m3 8 hour TWA-(Total  
ACGIT TLV - 5mg/m3 8 hour TWA - Dust  
Hardwood: OSHA PEL \* - 15mg/m3 8 hour TWA-Per Cubic  
ACGIT TLV - 5mg/m3 8 hour TWA - Meter)

Respirable fraction 5 mg per cubic meter.

\*Both Hardwood and Softwood

SPECIAL NOTE: Listed as particulates not otherwise regulated.

### EMERGENCY TELEPHONE NO.

(800) 424-9300 CHEMTREC

### PHYSICAL DATE

DESCRIPTION: Dust of varying size, odor, texture and color.

723011

FIRE AND EXPLOSION DATA

**FIRE AND EXPLOSION HAZARD:** The finely divided wood dust presents a dangerous fire and explosion hazard when exposed to heat or flame. The larger dusts present a moderate to dangerous fire and explosion hazard when exposed to heat or flame.

**FIREFIGHTING MEDIA:** dry chemical, carbon dioxide, water spray or foam (1984 emergency response guidebook, DOT P 5800.3). For larger fires, use water spray, fog or foam (1984 emergency response guidebook, DOT P 5800.3).

**FIREFIGHTING:** Move container from fire area if possible. Do not scatter spilled material with more water than needed for fire control. Dike fire control water for later disposal (1984 emergency response guidebook, DOT P 5800.3, Guide Page 31). Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

TOXICITY

Positive human carcinogen (IARC,NTP) (Furniture and cabinet making industry). An excess risk of nasal adenocarcinoma has been reported in workers in this industry. This excess risk occurs mainly in those that are exposed to wood dusts.

Some studies have suggested that the incidence of nasal cancers and Hodgkin's disease may be increased in workers in the lumber and sawmill (including logging), carpentry and joinery trades and the pulp and paper industries. Wood dust is an eye, skin and mucous membrane irritant and a skin sensitizer.

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HEALTH EFFECTS AND FIRST AID

**Inhalation: irritant/Sensitizer/Carcinogen**

Acute exposure, depending upon the species of tree, inhalation of wood dust may cause symptoms ranging from sneezing, coughing, diarrhea, fever, muscular aches and pains, labored breathing, nasopharyngitis, laryngitis, and bronchitis. The irritation caused by some wood dusts may cause sinus inflammation and nose bleeds. These symptoms have been attributed to an allergic type reaction and appear to be very species specific. Pulmonary sensitization to specific species has been documented. Pneumonitis or extrinsic allergic alveolitis may also occur among individuals that are susceptible to the wood dust. Studies have shown the this condition may be caused by the wood dust itself. There is the possibility that microorganisms inhabiting the wood may also be responsible for causing this condition in some individuals. Many of the more exotic woods have been reported to cause nausea and vomiting following inhalation; these woods have also been reported to cause dizziness, giddiness, and cardiac arrhythmias.

Chronic exposure, repeated or prolonged exposure, may result in asthma and/or rhinitis. Studies have shown that occupational asthma is the result of irritation of the dust. Many woods are composed to biologically active chemical agents and these agents may play a role in causing the asthma's. Cases of pulmonary fibrosis have been reported in individuals with long term exposure to wood dust. Nasal carcinomas, especially adenocarcinoma, have been documented in workers in the furniture and cabinet-making industries. This excess risk occurs mainly in those exposed to wood dust. An increase in Hodgkin's disease has been seen in other industries that are involved in woodworking, especially sawmills. Wood dusts appear to product a mucostatic effect on the body. A study has suggested that this mucostatic action may be of importance in the

development of nasal Aden carcinomas in furniture workers because of the prolonged retention of wood dust in the nasal cavity.

**FIRST AID:** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration, Keep person warm and at rest. Get medical attention immediately.

**SKIN CONTACT:** Acute Exposure – All wood dusts have been implicated in causing irritation. This irritation may be the result of mechanical means and/or chemical agents. Mechanically caused irritation is the result of dust particles being trapped in clothes of the worker and producing abrasions. The chemical agents may cause contact dermatitis with redness, scaling, and itching. Severe cases may progress to blistering of the skin. The areas that are most often affected are the face, eyelids, hands and forearms. Splinters from some hardwoods may produce septic wounds that may take an extremely long time to heal. Chronic exposure, repeated or prolonged exposure, may result in allergic dermatitis. Sensitization reactions may be mild with only erythema and irritation, but more often there is vesicular or popular dermatitis, which may progress to chronic dermatitis.

**FIRST AID:** A thorough cleansing of the body each day as a minimum, is necessary in the prevention of adverse reactions to wood dust. Any wound resulting from splinters or abrasions should be cleaned thoroughly. Splinters should be removed as quickly as possible by qualified medical personnel. If an infection from a splinter wound occurs, seek prompt medical attention. Remove and wash contaminated clothing at the end of each day.

**EYE CONTACT:** Irritant

Acute exposure- Direct contact with wood dust may cause irritation and inflammation. Mechanical damage of the cornea may also occur.

Chronic exposure, repeated or prolonged exposure, may cause conjunctivitis.

**FIRST AID:** Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.

**INGESTION:** Acute exposure – No data available. Chronic exposure – No data available.

**FIRST AID:** Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration.

**ANTIDOTE:** No specific antidote. Treat symptomatically and supportively.

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## REACTIVITY

**REACTIVITY:** Stable under normal temperatures and pressures.

**INCOMPATIBILITIES:** Strong oxidizers: Fire and explosion hazard.

**DECOMPOSITION:** Thermal decomposition products may include toxic oxides of carbon.

**POLYMERIZATION:** Hazardous polymerization has not been reported to occur under normal temperatures.

#### CONDITIONS TO AVOID

Finely divided dusts may ignite easily. Larger dusts usually require longer exposure time to heat a flame before ignition occurs.

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#### SPILL AND LEAK PROCEDURES

**OCCUPATIONAL SPILL:** No special precautions indicated.

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#### PROTECTIVE EQUIPMENT

**Ventilation:** provided local exhaust or general dilution ventilation. Ventilation equipment must be explosion-proof.

**RESPIRATOR:** The specific respirator selected must be based on the contamination levels found in the work place, must not exceed the working limits of the; respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration. The following; respirators are recommended based on the data found in the physical data, health effects and to toxicity sections. They are ranked in order from minimum to maximum respiratory protection:

- Cartridge style respirators (half or full face piece) with dust cartridges.
- Gas mask respirators with dust filter canisters.
- Type C supplied-air respirator operated in the pressure-demand or other positive pressure or continuous-flow mode.
- Self-contained breathing apparatus.

**FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:** Self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

**CLOTHING:** Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

**GLOVES:** Employee must wear appropriate protective gloves to prevent contact with this substance.

**EYE PROTECTION:** Employee must wear splash proof or dust-resistant safety goggles to prevent eye contact with this substance.

## SAFETY DATA SHEET

Date Prepared : 04/21/2015  
SDS No : SPLG80P08

Kool Jool

723022

24 HR. EMERGENCY TELEPHONE NUMBERS  
ChemTel: 800-255-3834

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Kool Jool  
**GENERAL USE:** Heat sink for soldering  
**MANUFACTURER/DISTRIBUTOR**  
 Grobet File Company of America, LLC  
 750 Washington Ave.  
 Carlstadt, NJ 07072  
**Customer Service: 201-939-6700**

## 2. HAZARDS IDENTIFICATION

## GHS CLASSIFICATIONS

**Health:**

Skin Irritation, Category 3  
 Eye Irritation, Category 2B

**Physical:**

Not Classified

## GHS LABEL

None

## SIGNAL WORD: WARNING

## HAZARD STATEMENTS

H316: Causes mild skin irritation.  
 H320: Causes eye irritation.

## PRECAUTIONARY STATEMENTS

**Response:**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## POTENTIAL HEALTH EFFECTS

**EYES:** Contact may cause eye irritation.

**SKIN:** May cause skin irritation.

**SKIN ABSORPTION:** May be harmful if absorbed through skin.

**INGESTION:** May cause irritation of the mucous membranes.

**INHALATION:** May cause respiratory tract irritation.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
1, 2-Propanediol	~ 30 - 40	57-55-6

## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air. If irritation persists, get medical attention.

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**NOTES TO PHYSICIAN:** Treat symptomatically**5. FIRE FIGHTING MEASURES****FLAMMABLE CLASS:** Not flammable or combustible**EXTINGUISHING MEDIA:** Use dry chemical, carbon dioxide, water spray (fog) or foam when fighting fires involving this material.**EXPLOSION HAZARDS:** None**FIRE FIGHTING EQUIPMENT:** Use personal protective equipment**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon.**6. ACCIDENTAL RELEASE MEASURES****SMALL SPILL:** Stop leak if safe to do so. Soak up and contain spill with an absorbant material and place in container for proper disposal. Flush away traces with water.**LARGE SPILL:** Dike spilled material or otherwise contain material to ensure runoff does not reach into soil, ditches, sewers and / or groundwater. Transfer material into suitable containers for proper disposal in accordance with local, state and federal regulations.**ENVIRONMENTAL PRECAUTIONS****WATER SPILL:** Do not allow material to contaminate waterways.**LAND SPILL:** Do not allow material to contaminate the soil.**GENERAL PROCEDURES:** Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in Sections 7 and 8.**7. HANDLING AND STORAGE****GENERAL PROCEDURES:** Handle in accordance with good industrial hygiene and safety procedures. Use personal protection recommended in Section 8. Follow all product label instructions.**HANDLING:** Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing vapors or mists.**STORAGE:** Keep out of reach of children. Store in original container in a cool, dry and well ventilated area.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Safety glasses with side shields.**SKIN:** Chemical resistant gloves.**RESPIRATORY:** No personal respiratory equipment normally required.**PROTECTIVE CLOTHING:** Wear suitable protective clothing to prevent contact with skin.**WORK HYGIENIC PRACTICES:** Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.**OTHER USE PRECAUTIONS:** Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.**9. PHYSICAL AND CHEMICAL PROPERTIES****ODOR:** Slight**ODOR THRESHOLD:** Not determined for this mixture.**APPEARANCE:** Paste**COLOR:** Pink**pH:** 5 to 6**FLASH POINT AND METHOD:** None**AUTOIGNITION TEMPERATURE:** Not determined for this mixture.**VAPOR PRESSURE:** Not determined for this mixture.**VAPOR DENSITY:** Not determined for this mixture.**BOILING POINT:** Not determined for this mixture.**FREEZING POINT:** Not determined for this mixture.

Kool Jool

**THERMAL DECOMPOSITION:** Not determined for this mixture.

**SOLUBILITY IN WATER:** Complete

**EVAPORATION RATE:** Not determined for this mixture.

**SPECIFIC GRAVITY:** 1.06 to 1.08

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable under recommended storage conditions.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Not determined for this mixture.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Not determined for this mixture.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon.

**INCOMPATIBLE MATERIALS:** Strong acids and oxidizing materials.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** Not determined for this mixture.

**SKIN ABSORPTION:** Not determined for this mixture.

**INHALATION LC<sub>50</sub>:** Not determined for this mixture.

**EYE EFFECTS:** May cause eye irritation.

**SKIN EFFECTS:** May cause skin irritation.

**CHRONIC:** Health injuries are not known or expected under normal use.

**SUBCHRONIC:** No data available

### CARCINOGENICITY

**IARC:** No ingredient in this product is present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

**NTP:** No ingredient in this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No ingredient in this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**REPEATED DOSE EFFECTS:** No data available.

**GENETIC EFFECTS:** No data available

**REPRODUCTIVE EFFECTS:** No data available

**TARGET ORGANS:** No data available

**TERATOGENIC EFFECTS:** No data available

**MUTAGENICITY:** No data available

## 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY (ACUTE):** Not determined for this mixture.

**96-HOUR LC<sub>50</sub>:** Not determined for this mixture.

**48-HOUR EC<sub>50</sub>:** Not determined for this mixture.

**96-HOUR EC<sub>50</sub>:** Not determined for this mixture.

**CHEMICAL FATE INFORMATION:** This product is expected to be readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Follow all Federal, State and Local Regulations appropriate for this material.

**PRODUCT DISPOSAL:** Wastewater resulting from this product should be directed to a proper waste water treatment facility.

**EMPTY CONTAINER:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

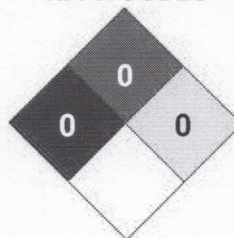
Kool Jool

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Not dangerous goods.**ROAD AND RAIL (ADR/RID)****PROPER SHIPPING NAME:** Not dangerous goods.**AIR (ICAO/IATA)****SHIPPING NAME:** Not dangerous goods.**VESSEL (IMO/IMDG)****SHIPPING NAME:** Not dangerous goods.**CANADA TRANSPORT OF DANGEROUS GOODS****SHIPPING NAME:** Not dangerous goods.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** No SARA Hazards**313 REPORTABLE INGREDIENTS:** This product does not contain any chemical components that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**302/304 EMERGENCY PLANNING****EMERGENCY PLAN:** No chemicals in this product are subject to the reporting requirements of SARA Title III, Section 302.**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.**16. OTHER INFORMATION**

Date Prepared: 04/21/2015

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>0</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>B</b>

**NFPA CODES**

**MANUFACTURER DISCLAIMER:** The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with other material or in any process, unless specified in the text.

End of Safety Data Sheet