

# MATERIAL SAFETY DATA SHEET



**Boise Cascade**

BOISE CASCADE

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:  
WOOD DUST (UNTREATED).

TRADE NAME:  
WOOD DUST (UNTREATED).

MANUFACTURER/DISTRIBUTOR: BOISE CASCADE  
P.O. BOX 62  
BOISE, ID 83707-0062  
PHONE NUMBER: 208/384-6610

DESCRIPTION:  
PARTICLES GENERATED BY ANY MANUAL OR MECHANICAL CUTTING OR ABRASION PROCESS PERFORMED ON WOOD.

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## SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

| COMPONENT         | OSHA PEL   | ACGIH TLV           |
|-------------------|--|---------------------|
| WESTERN RED CEDAR | 15MG/M3 TWA<br>(TOTAL DUST)<br>5.0MG/M3<br>(RESPIRABLE FRACTION) | 0.5MG/M3(INHALABLE) |
| ALL OTHER SPECIES | TWA-15MG/M3<br>(TOTAL DUST)<br>5.0MG/M3<br>(RESPIRABLE FRACTION) | 1.0MG/M3(INHALABLE) |

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## SECTION 3 HAZARDS IDENTIFICATION

SKIN & EYE CONTACT:  
EYE IRRITATION & DERMATITIS WOOD DUST CAN CAUSE EYE IRRITATION. VARIOUS SPECIES OF WOOD DUST CAN ELICIT ALLERGIC CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS.

INGESTION: NOT APPLICABLE

SKIN ABSORPTION: NOT KNOWN TO OCCUR.

INHALATION:  
MAY CAUSE NASAL DRYNESS, IRRITATION & OBSTRUCTION, COUGHING, WHEEZING,& SNEEZING. SINUSITIS & PROLONGED COLDS HAVE ALSO BEEN REPORTED.

#### CHRONIC EFFECTS:

WOOD DUST, DEPENDING UPON SPECIES, MAY CAUSE DERMATITIS ON PROLONGED, REPETITIVE CONTACT; MAY CAUSE RESPIRATORY SENSITIZATION AND/OR IRRITATION. WOOD DUST IS LISTED IN THE NATIONAL TOXICOLOGY PROGRAM ANNUAL REPORT ON CARCINOGENS. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1). THIS CLASSIFICATION IS BASED PRIMARILY ON IARC'S EVALUATION OF INCREASED RISK IN THE OCCURRENCE OF ADENOCARCINOMAS OF THE NASAL CAVITIES PARANASAL SINUSES ASSOCIATED WITH EXPOSURE TO WOOD DUST. IARC DID NOT FIND SUFFICIENT EVIDENCE TO ASSOCIATE CANCERS OF THE OROPHARYNX, HYPOPHARYNX, LUNG, LYMPHATIC AND HEMOTAPOETIC SYSTEMS, STOMACH COLON OR RECTUM WITH EXPOSURE TO WOOD DUST.

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#### SECTION 4 FIRST-AID MEASURES

##### INHALATION:

REMOVE TO FRESH AIR. IF PERSISTENT IRRITATION, SEVERE COUGHING OR BREATHING DIFFICULTY OCCURS, GET MEDICAL ATTENTION.

##### EYE CONTACT:

REMOVE CONTACT LENSES (IF APPLICABLE). FLUSH EYES, INCLUDING UNDER EYELIDS, WITH LARGE AMOUNTS OF WATER. REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

##### SKIN CONTACT:

WASH AFFECTED AREAS WITH SOAP AND WATER. IF RASH OR PERSISTENT IRRITATION OR DERMATITIS OCCURS, GET MEDICAL ATTENTION.

INGESTION: NOT APPLICABLE.

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#### SECTION 5 FIRE FIGHTING MEASURES

##### FIRE AND EXPLOSION

FLASH POINT: NOT APPLICABLE.

AUTO IGNITION TEMPERATURE: DEPENDENT UPON DURATION OF EXPOSURE TO HEAT SOURCE AND OTHER VARIABLES. 400 DEG. - 500 DEG. F (204 DEG. - 260 DEG. C).

FLAMMABLE LIMITS IN AIR (% BY VOLUME): AN AIRBORNE CONCENTRATION OF 40 GRAMS OF DUST PER CUBIC METER OF AIR IS OFTEN USED AS THE LOWEST EXPLOSION LIMIT (LEL) FOR WOOD DUST.

##### UNUSUAL FIRE AND EXPLOSION HAZARD:

WOOD DUST IS A STRONG TO SEVERE EXPLOSION HAZARD IF A DUST "CLOUD" CONTACTS AN IGNITION SOURCE.

##### SPECIAL FIRE FIGHTING PROCEDURES:

BURNS LIKE OTHER WOOD PRODUCTS, ALTHOUGH IT IS DANGEROUS AND MAY BURN HOTTER. PARTIALLY BURNED DUST IS ESPECIALLY HAZARDOUS IF DISPERSED INTO THE AIR. REMOVE BURNED OR WET DUST TO AN OPEN AREA AFTER FIRE IS EXTINGUISHED. WET DOWN WOOD DUST TO REDUCE THE LIKELIHOOD OF IGNITION OR DISPERSION OF DUST INTO THE AIR.

EXTINGUISHING MEDIA:  
WATER, CARBON DIOXIDE, SAND.

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## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

SWEEP OR VACUUM DUST FOR RECOVERY OR DISPOSAL. WOOD DUST CLEANUP AND DISPOSAL ACTIVITIES SHOULD BE ACCOMPLISHED IN A MANNER TO MINIMIZE CREATION OF AIRBORNE DUST. PROVIDE GOOD VENTILATION WHERE DUST CONDITIONS MAY OCCUR. PLACE RECOVERED WOOD DUST IN A CONTAINER FOR PROPER DISPOSAL.

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## **SECTION 7 HANDLING AND STORAGE**

AVOID DUSTY CONDITIONS AND PROVIDE GOOD VENTILATION. AVOID EYE CONTACT. AVOID REPEATED OR PROLONGED CONTACT WITH SKIN. CAREFUL BATHING AND CLEAN CLOTHES ARE INDICATED AFTER EXPOSURE. AVOID PROLONGED OR REPEATED BREATHING OF WOOD DUST IN THE AIR. AVOID CONTACT WITH OXIDIZING AGENTS AND DRYING OILS. AVOID OPEN FLAME.

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## **SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION**

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

WEAR NIOSH-APPROVED RESPIRATOR WHEN THE ALLOWABLE OSHA EXPOSURE LIMITS TO WOOD DUST MAY BE EXCEEDED.

EYE PROTECTION:

RECOMMEND GOGGLES OR SAFETY GLASSES AS CONDITIONS INDICATE.

SKIN PROTECTION:

OTHER PROTECTIVE EQUIPMENT, SUCH AS GLOVES AND OUTER GARMENTS, MAY BE NEEDED TO REDUCE SKIN CONTACT. WASH AFFECTED AREA OF THE BODY AFTER CONTACT WITH DUST.

OTHER CLOTHING AND EQUIPMENT:

NOT APPLICABLE.

ENGINEERING CONTROLS:

VENTILATION REQUIREMENTS:

PROVIDE LOCAL EXHAUST, AS NECESSARY, TO MEET OSHA REQUIREMENTS FOR ALLOWABLE EXPOSURE LIMITS.

OTHER TYPES OF ENGINEERING CONTROLS:

DUE TO THE EXPLOSIVE POTENTIAL OF WOOD DUST WHEN SUSPENDED IN AIR, PRECAUTIONS SHOULD BE TAKEN TO PREVENT SPARKS OR OTHER IGNITION SOURCES IN VENTILATION EQUIPMENT.

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## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL FORM: SOLID

**COLOR:**

LIGHT TO DARK TAN-COLORED GRANULAR SOLID. COLOR AND ODOR ARE DEPENDENT UPON WOOD SPECIES AND TIME SINCE DUST WAS GENERATED.

**ODOR:** COLOR AND ODOR ARE DEPENDENT UPON WOOD SPECIES AND TIME SINCE DUST WAS GENERATED.

**BOILING POINT:** NOT APPLICABLE

**MELT POINT/FREEZE POINT:** NOT APPLICABLE

**PH:** NOT APPLICABLE.

**SOLUBILITY IN WATER:** INSOLUBLE

**SPECIFIC GRAVITY:** VARIABLE (DEPENDENT ON WOOD SPECIES AND MOISTURE CONTENT).

**EVAPORATION RATE:** NOT APPLICABLE.

**% VOLATILE BY VOLUME:** NOT APPLICABLE.

**VAPOR PRESSURE:** NOT APPLICABLE

**VAPOR DENSITY:** NOT APPLICABLE.

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**SECTION 10 STABILITY AND REACTIVITY**

**CONDITIONS CONTRIBUTING TO INSTABILITY:**

STABLE UNDER NORMAL CONDITIONS. WOOD DUST GENERATED FROM SAWING, SANDING, OR MACHINING THE PRODUCT IS EXTREMELY COMBUSTIBLE. KEEP IN COOL, DRY PLACE AWAY FROM IGNITION SOURCES.

**INCOMPATIBILITY (MATERIALS TO AVOID):** AVOID CONTACT WITH OXIDIZING AGENTS AND DRYING OILS. AVOID OPEN FLAME. PRODUCT MAY IGNITE AT TEMPERATURES IN EXCESS OF 400 DEG.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

THERMAL-OXIDATION DEGRADATIVE OR BURNING OF WOOD CAN PRODUCE IRRITATING AND POTENTIALLY TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES, ORGANIC ACIDS, AND NITROGEN COMPOUNDS.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

**WOOD DUST:**

WOOD DUST MAY CAUSE NASAL DRYNESS, IRRITATION, AND OBSTRUCTION. COUGHING, WHEEZING, AND SNEEZING; SINUSITIS AND PROLONGED COLDS HAVE ALSO BEEN REPORTED.

DEPENDING ON SPECIES, MAY CAUSE RESPIRATORY SENSITIZATION AND/OR IRRITATION. WOOD DUST IS NOT CONSIDERED A POTENTIAL CANCER HAZARD BY OSHA OR THE NATIONAL TOXICOLOGY PROGRAM (NTP). THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC)

CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1). THIS CLASSIFICATION IS BASED PRIMARILY ON IARC'S EVALUATION OF INCREASED RISK IN THE OCCURRENCE OF ADENOCARCINOMAS OF THE NASAL CAVITIES AND PARANASAL SINUSES ASSOCIATED WITH EXPOSURE TO WOOD DUST. IARC DID NOT FIND SUFFICIENT EVIDENCE TO ASSOCIATE CANCERS OF THE OROPHARYNX, HYPOPHARYNX, LUNG, LYMPHATIC AND HEMATOPOIETIC SYSTEMS, STOMACH, COLON, OR RECTUM WITH EXPOSURE TO WOOD DUST.

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## **SECTION 12 ECOLOGICAL INFORMATION**

NOT APPLICABLE.

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## **SECTION 13 DISPOSAL CONSIDERATIONS**

THIS PRODUCT IS NOT CONSIDERED HAZARDOUS WASTE UNDER FEDERAL HAZARDOUS WASTE REGULATIONS 40 CFR 261. STATE AND LOCAL REQUIREMENTS FOR WASTE DISPOSAL MAY BE DIFFERENT FROM FEDERAL REGULATIONS. INCINERATE OR LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

HAZARDOUS WASTE DESIGNATION: NOT APPLICABLE.

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## **SECTION 14 TRANSPORT INFORMATION**

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: WOOD DUST.

HAZARD CLASS: COMBUSTIBLE.

IDENTIFICATION NUMBER: NOT APPLICABLE.

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## **SECTION 15 REGULATORY INFORMATION**

TSCA (TOXIC SUBSTANCE CONTROL ACT):  
NOT APPLICABLE.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT):  
NOT APPLICABLE.

SARA TITLE III:  
FEDERAL AND/OR STATE REGULATIONS MAY REQUIRE REPORTING.

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## **SECTION 16 OTHER INFORMATION**

WOOD DUST IS NOW OFFICIALLY REGULATED AS AN ORGANIC DUST UNDER THE PARTICULATES NOT OTHERWISE REGULATED (PNOR) OR INERT OR NUISANCE DUST CATEGORIES AT PELS OF: TWA - 15.0 MG/M3 (TOTAL DUST); 5.0 MG/M3 (RESPIRABLE FRACTION). HOWEVER, A NUMBER OF STATES HAVE INCORPORATED PROVISIONS OF THE 1989 STANDARD IN THEIR STATE PLANS. ADDITIONALLY, OSHA HAS ANNOUNCED THAT IT MAY CITE COMPANIES UNDER THE OSH ACT GENERAL DUTY CLAUSE UNDER APPROPRIATE CIRCUMSTANCES FOR

NONCOMPLIANCE WITH THE 1989 PELS.  
MSDS STATUS: UPDATED TO NEW FORMAT.

REFERENCES:

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND  
BIOLOGICAL EXPOSURE INDICES FOR 1998

NIOSH POCKET GUIDE TO CHEMICAL HAZARDS FOR JUNE 1997

HAZARDOUS CHEMICALS DESK REFERENCE, THIRD EDITION, RICHARD J. LEWIS, SR.

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