

# TECHNICAL SUPPORT DOCUMENT

## **PART I** *What is the material and what do I need to know in an emergency?*

### **1. PRODUCT IDENTIFICATION**

**TRADE NAME (AS LABELED):** PARTICLEBOARD CORE DOORS

**SPECIFIC REFERENCE SOURCES:** No specific information was provided on components. As an Article, general information is acceptable.

**OTHER REFERENCES:** The following list summarizes reference materials that were consulted during preparation of the associated Material Safety Data Sheet.

Brethricks Handbook of Reactive Chemicals Hazards, 4th Ed., Butterworth & Company Publishers, LTD.

Condensed Chemical Dictionary, Sax, N.I., and Lewis, R.J.; Van Nostrand Reinhold

Chapman & Hall Combined Chemical Dictionary, Chapman & Hall Publishers

Chemical Toxicology of Commercial Products, Gleason, M., et al.; Williams and Wilkins Co.

Chemical Exposure and Toxic Responses, Lewis, Sr., R.J., Van Nostrand Reinhold

Cooper's Toxic Exposure Desk Reference, Cooper, A. R., Lewis Publishers

CRC Handbook of Chemistry and Physics, Weast, R.C.; CRC Press, Boca Raton, FL

CRC Handbook of Analytical Toxicology, Sunshine, I.S.; Chemical Rubber Co., Cleveland OH

Dangerous Properties of Industrial Materials, Sax, N.I., and Lewis, R.J.; Van Nostrand Reinhold

Emergency Care for Hazardous Materials Exposure, Bronstein, A.C. and Currance, P.L.

Emergency Response Guidebook, 2004.

Environmental Contaminant Reference Databook (Volumes I & II), Prager, J.C.; Van Nostrand Reinhold

Fire Protection Guide to Hazardous Materials, National Fire Protection Association

Handbook of Emergency Toxicology, Sidney, K.; C.C. Thomas Publisher, Springfield IL

Handbook of Environmental Fate and Exposure Data for Organic Chemicals (Volumes I - IV); Lewis Publishers

Handbook of Pharmaceutical Additives, Ash, Michael and Irene; Gower

Hawley's Condensed Chemical Dictionary (12th ed.), Lewis, R.J., Sr.; Van Nostrand Reinhold,

Hazardous Material Information System Implementation Manual and Hazardous Material Information System Raw Materials Rating Manual; National Paint and Coatings Association

Index of Antimicrobials, Ash, Michael and Irene; Gower

Index of Antioxidants, Ash, Michael and Irene; Gower

Index of Flame Retardants, Ash, Michael and Irene; Gower

Index of Solvents, Ash, Michael and Irene; Gower

Merck Index (12th ed.), Budavari, S. (Ed.); Merck & Co., Inc.

Quick Guide, NIOSH/EPA Chemical Database.

RTECS: Registry of Toxic Effects of Chemical Substances

WHMIS Compliance Procedure Manual, International Compliance Center Ltd.

### **2. COMPOSITION and INFORMATION ON INGREDIENTS**

**CHEMICAL NAME:** Information supplied by Marshfield DoorSystems (corroborated by CSA).

**CAS NUMBER:** Information from: Table 1 references or an on-line database search.

**PERCENT:** Information from Marshfield DoorSystems

### **3. HAZARD IDENTIFICATION**

**INFORMATION FROM:** References in TABLE 1. The HMIS System Rating was determined after review of the HMIS Tables. These tables appear at the end of this document. The assigned ratings follow:

Health Hazard Rating = 1, Dusts from this product may mildly contaminated tissue and cause sensitization;

Fire Hazard Rating = 1, This product can ignite if highly heated or is involved in a fire;

Physical Hazard Rating = 0, The product is not reactive.

## **PART II** *What should I do if a hazardous situation occurs?*

### **4. FIRST-AID MEASURES**

Basic statement derived from standard first-aid treatment recommended in the following documents:

Emergency Care for Hazardous Materials Exposure

Sigma-Aldrich Chemical Library

**MEDICAL INFORMATION and RECOMMENDATIONS TO PHYSICIANS:** Information from Emergency Care for Hazardous Materials Exposure and the National Library of Medicine.

Modified as needed by CSA, based on the information provided by Marshfield DoorSystems and research on wood dusts.

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## 5. FIRE-FIGHTING MEASURES

### INFORMATION FROM:

2004 Emergency Response Guidebook  
Review of Information in TABLE 1.  
NFPA 704 System Information.

NFPA Rating was determined using the criteria of the NFPA 704 System Information. The NFPA rating assigned by CSA is 1-0-0, based on the physical and health hazards associated with this product.

Health Hazard Rating = 1, Dusts from this product may mildly contaminated tissue and cause sensitization;

Fire Hazard Rating = 1, This product can ignite if highly heated or is involved in a fire;

Instability Hazard Rating = 0, The product is not reactive.

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## 6. ACCIDENTAL RELEASE MEASURES

The product presents no hazard of release due to its form.

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## PART III

*How can I prevent hazardous situations from occurring?*

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## 7. HANDLING and STORAGE

Information from review of TABLE 1 references. Additional information was from CSA's Hazardous Chemical Safety manual.

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## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Information from review of TABLE 1 and Prudent Practices in the Laboratory, National Academy Press, Washington, D.C., 1981, and NIOSH respiratory protection and other personal protection guidelines. Additional information was from CSA's Hazardous Chemical Safety manual.

PEL: 29 CFR 1910.1000, 1990 from the Occupational Safety and Health Administration. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The current PELs are the ones that are enforced by OSHA under the regulations; however, over-exposures above the PELs which were vacated may be considered violations under the "General Duty Clause", as contained in section 5(a)(1) of the Occupational Safety and Health Act. Both values are provided, to give end-users of this product the most complete information on exposure limits pertinent to the components.

TLV: Information from 2007 Threshold Limit Values (TLVs) for Chemical Substances and Physical Agents and Biological Exposure Indices (BEIs), American Conference of Governmental Industrial Hygienists.

COMMENTS: Additional information from the following:  
National Institute of Occupational Safety and Health: Pocket Guide to Chemical Hazards  
QUICK GUIDE: NIOSH/EPA Chemical Database  
Environmental Protection Agency (Superfund Amendments and Reauthorization Act Title III, Section 313)  
Occupational Safety and Health Administration (1910 Subpart Z)

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## 9. PHYSICAL and CHEMICAL PROPERTIES

INFORMATION FROM: Marshfield DoorSystems.

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## 10. STABILITY and REACTIVITY

INFORMATION FROM: Due to form of product, it presents no hazard of stability or reactivity.

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## PART IV

*Is there any other useful information about this material?*

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## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: From the NIOSH Registry of Toxic Effects of Chemicals (RTECS).

### WOOD DUSTS:

TDLo (Intratracheal-Rat) 7000 mg/kg/4 weeks-intermittent: Lungs, Thorax, or Respiration: other changes.....VCVPS\* "Vrednie chemichescie veshstva. Prirodnie organicheskie soedinenia" (Hazardous substances. Nature products.) Volkova N.V. et al., Sankt-Peterburg, 1998. Volume(issue)/page/year: -,197,1998

TCLo (Inhalation-Rat) 1683.5 mg/kg/13 weeks-intermittent: Lungs, Thorax, or Respiration: consolidation, (interstitial).....VCVPS\* "Vrednie chemichescie veshstva. Prirodnie organicheskie soedinenia" (Hazardous substances. Nature products.) Volkova N.V. et al., Sankt-Peterburg, 1998. Volume(issue)/ page/year: -,197,1998

IRRITANCY OF PRODUCT: Information from references listed in Section 1 and research on wood dusts. WHMIS defines irritancy as "the ability of the material to cause a reversible inflammatory response in a body, usually to the skin or the mucous membranes, when in sufficient concentration over a period of time."

SENSITIZATION TO THE PRODUCT: Information from references listed in Section 1 and research on wood dusts and formaldehyde. WHMIS defines sensitization as "the ability of the product to cause a person to develop an immune response, allergy, or other reaction following exposure to the material."

REPRODUCTIVE TOXICITY INFORMATION: Not applicable as an Article.

SUSPECTED CARCINOGEN: The National Toxicology Program, the International Agency for Research on Cancer, the OSHA carcinogen lists, and the State of California carcinogen list (Title 8, Article 110, Regulated Carcinogens) were consulted to determine the carcinogenic status of this product.

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## 11. TOXICOLOGICAL INFORMATION (Continued)

BIOLOGICAL EXPOSURE INDICES: Information from 2007 Threshold Limit Values (TLVs) for Chemical Substances and Physical Agents and Biological Exposure Indices (BEIs), American Conference of Governmental Industrial Hygienists, 2007.

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## 12. ECOLOGICAL INFORMATION

Information from references in Section 1. Reasonable judgment on the part of CSA was employed to assess potential ecological impact based on the expected use and type of packaging in which the product is offered. All appropriate environmental hazard information was provided, as deemed appropriate from the label warnings and a review of hazard information.

Handbook of Environmental Fate and Exposure Data, Howard, P.H., *et al.*, Lewis Publishers  
Environmental Contaminant Reference Databook (Volumes I & II), Prager, J.C.  
Chemical Evaluation Search and Retrieval System  
Chemical Hazards Response Information System  
National Library of Medicine Records

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## 13. DISPOSAL CONSIDERATIONS

Due to form of product, waste disposal as a non-hazardous material is recommended. Because waste disposal regulations vary from area to area, adherence to U.S. Federal, State, and local hazardous waste disposal regulations is stressed and those of Canada and its Provinces, EU Member States, regulations of Japan, Korea, Australia and others should be researched and followed.

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## 14. TRANSPORTATION INFORMATION

This product is not regulated under any jurisdiction as an Article.

Information on the DOT requirements for product labeling is obtained from the Department of Transportation Hazardous Materials Table, 49 CFR 172.101, as amended by HM-215A. U.S. MARINE POLLUTANT: From review of 49 CFR 172.101, Appendix B.

Canadian information from download of TC regulations from Transport Canada website.

Information on International Air Transport Association (IATA) requirements from current IATA Dangerous Goods regulations.

Information on International Maritime Organization (IMO) from current IMO Dangerous Goods Code.

Information on European Agreement Concerning The International Carriage Of Dangerous Goods By Road (ADR) is from Dangerous Goods regulations.

Information on Australian Code For The Transportation Of Dangerous Goods By Road And Rail (ADG Code) current National Road Transport Commission (NRTC) Dangerous Goods regulations.

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## 15. REGULATORY INFORMATION

### ADDITIONAL U.S. REGULATIONS:

U.S. SARA 313 STATUS: 40 CFR 372, Toxic Chemical Release Reporting: Community Right-To-Know sets forth the requirements for the submission of information relating to the release of toxic chemicals under Section 313 of the Superfund Amendments and Reauthorization Act (SARA). SARA 313 Status of this product was determined by using the SARA Chemical Database from the U.S. EPA, latest edition. Additional information is from "Title III List of Lists" (US EPA, 2006).

U.S. CERCLA STATUS: 40 CFR 300.

U.S. TSCA STATUS: From TSCA On-line review.

OTHER U.S. FEDERAL REGULATIONS: Information from the Code of Federal Regulations.

LABEL INFORMATION: As an Article, the product is not required to carry hazard warning labels. CSA uses the American National Standards Institute (ANSI) labeling standard, Z129.1-2006, as the basis for label preparation. The standard recommends the following information on a commercial chemical product label:

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|--|---|
| a. Identity of product and hazardous constituents. | g. Antidotes.                                       |
| b. Signal word—DANGER!, WARNING!, or CAUTION!      | h. Notes to physicians.                             |
| c. Statement of hazard.                            | i. Instructions in case of fire, spill, or leak.    |
| d. Precautionary measures.                         | j. Instructions for container handling and storage. |
| e. Instructions in case of contact or exposure.    | k. Other useful information.                        |
| f. Target Organs.                                  | l. Name, address and phone number of manufacturer.  |

Only sections b–i were provided in the label because the remaining information is found in detail in the other sections of the Material Safety Data Sheet. The language is specifically from the recommendations of the ANSI standard.

### CANADIAN REGULATIONS:

CANADIAN DSL/NDL STATUS: From CHEMINFO CD ROM list, taken from the current Canadian Environment Protection Act (CEPA) by Environment Canada.

CANADIAN WHMIS CLASSIFICATION AND SYMBOL: From the WHMIS Compliance Procedure Manual, Section on "Labels and Labeling".

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## 15. REGULATORY INFORMATION (Continued)

### EUROPEAN UNION INFORMATION:

EU LABELING AND CLASSIFICATION: From European Union Council Directives 67/548/EEC Annex II, 67/548/EEC Annex III, 67/548/EEC Annex IV, 67/548/EEC Annex VI, 88/379/EEC, 92/32/EEC, and 96/56/EC and Commission Directives 91/155/EEC, 93/18/EEC, 93/72/EEC, 93/101/EC, 93/112/EEC, 94/69/EC, and 96/54/EC.

### AUSTRALIAN INFORMATION FOR PRODUCT:

LIST OF DESIGNATED SUBSTANCES: WorkSafe Australia website.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Standard for the Uniform Scheduling of Drugs and Poisons No. 12 and Amendment No.1, Australian Government Publishing Service, Canberra, 1997 to current.

LABELING AND CLASSIFICATION: Australian Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008 (1994)] and Australian National Code of Practice for the Labelling of Workplace Substances [NOHSC: 2012 (1994)].

### JAPANESE INFORMATION FOR PRODUCT:

JAPANESE ENCS: <http://www.chem-edata.com/>

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

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## 16. OTHER INFORMATION

### PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.  
PO Box 3519, La Mesa, CA 91944-3519  
800/441-3365

### DATE OF PREPARATION:

June 24, 2007

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**HAZARDOUS MATERIAL INFORMATION SYSTEM CLASSIFICATION**

MATERIAL: <b>PARTICLEBOARD CORE DOORS</b>		FLASH POINT: Not determined.	
CAS #: Proprietary or not applicable to mixtures		BOILING POINT: Not applicable.	
ODOR: No odor.		ODOR THRESHOLD: Not applicable.	
TLV: Provided for wood dusts.		PEL: Provided for wood dusts.	
STEL: Provided for wood dusts.		IDLH: Not applicable.	
CARCINOGEN: Provide for wood dusts.		CLASSIFIED BY LISTING: No.	
HEALTH HAZARD RATING:	1	FLAMMABILITY HAZARD RATING:	1
PHYSICAL HAZARD RATING:	0		

**Health Hazard Rating (Acute Toxic Properties)****Any data is provided for Wood Dusts**

A	Oral LD <sub>50</sub> Rat	B	Dermal LD <sub>50</sub> Rabbit
0	> 5000 mg/kg	0	> 5000 mg/kg
1	> 500–5000 mg/kg	1	> 1000–5000 mg/kg
2	> 50–500 mg/kg	2	> 200–1000 mg/kg
3	> 1–50 mg/kg	3	> 20–200 mg/kg
4	< 1 mg/kg	4	< 20 mg/kg
	No data available.		No data available.
C	Inhalation - gases LC <sub>50</sub> Rat - 1 Hr	D	Dusts, fumes mists LC <sub>50</sub> Rat - 1 hr
0	> 10000 ppm	0	> 200 mg/L
1	> 2000–10000 ppm	1	> 20–200 mg/L
2	> 200–2000 ppm	2	> 2–20 mg/L
3	> 20–200 ppm	3	> 0.2–2 mg/L
4	< 20 ppm	4	< 0.2 mg/L
	No data available.		No data available.
E	Skin Irritation - 4 Hr Exposure	D	Eye Irritation
0	Essentially non-irritating.	0	Essentially non-irritating.
1	Slightly irritating.	1	Slightly irritating but reversible within 7 days.
2	Primary irritant, sensitizer.	2	Irritating or moderately irritating, persisting for more than 7 days with reversible corneal opacity.
3	Severely irritating and/or corrosive.	3	Corrosive, irreversible corneal opacity.
4		4	
	No data available.		No data available.

II	FLAMMABILITY HAZARD CRITERIA
0	Minimal Hazard—Materials that will not burn in air when exposed to temperatures in excess of 1500°F for a period of 5 minutes.
1	Slight Hazard—Materials that require considerable preheating before burning. Materials with a flash point above 200°F or that burn when heated to 1500°F for 5 minutes.
2	Moderate Hazard—Materials that must be heated to a relatively high temperature before ignition can occur. Liquids with a flash point of 100–200°F; solids and semi-solids that readily release ignitable gases.
3	Serious Hazard—Materials that produce flammable, hazardous atmospheres with air under almost all ambient conditions or that are readily ignited (including liquids with a flash point below 73°F and a boiling point at or above 100°F or liquids with a flash point between 73 and 100°F). Class 1B and 1C flammable liquids.
4	Severe Hazard—Materials that will readily, rapidly or completely vaporize at atmospheric pressure and normal room temperature and burn readily (including gases, Class 1A flammable liquids, and explosive materials).
	No data available.

III	PHYSICAL HAZARD CRITERIA
0	Minimal Hazard—Materials that are normally stable and are not water reactive.
1	Slight Hazard—Materials that can become unstable at elevated temperatures or that may react with water with the release of some energy, but not violently.
2	Moderate Hazard—Materials that are normally unstable and readily undergo violent chemical reaction, but that do not detonate. This includes materials that react violently with water.
3	Serious Hazard—Materials that are of themselves detonable, but that require a strong initiating force or that must be heated under confinement or are sensitive to thermal or mechanical shock at elevated temperatures or that react explosively with water.
4	Severe Hazard—Materials that in themselves can detonate at normal temperature and pressure, including those that are sensitive to thermal or mechanical shock at normal temperature and pressure.
	No data available.