

	<b>GHS SDS 001 - GLOBAL HARMONIZED SYSTEM SAFETY DATA SHEET CLEAR PINE DOOR SLAB</b>	Elaboração: 29/05/15
		Revisão: 29/05/15
		Nº revisão: 00
Elaborado por: <b>ADRIANA P. MORATELLI</b>	Revisado por: <b>ADRIANA P. MORATELLI</b>	Aprovado por: <b>FLÁVIO ROHDEN</b>

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## 1. IDENTIFICATION

- 1.1 GHS Product Identifier: CLEAR PINE DOOR SLAB
- 1.2 Other means of identification: CODE: RF, RX, RV, RM, RDF, RZ, RDZ – Product description: Clear Door Slab (Interior door made of planted wood pine and eucalyptus).

Wood dust includes dust from all hard and soft woods. Consists of particles generated by any manual or mechanical cutting or abrasion process performed on wood. SDS also considers wood dust from bonded wood products such as plywood or finger-jointed.

- 1.3 Recommended use of the chemical and restrictions on use  
NA
- 1.4 Supplier's details (including name, address, phone number etc.)

Company: ROHDEN Portas e Artefatos de Madeira Ltda  
Address: Rua Boa Vista, 500  
Neighborhood: Centro  
City: Salete  
State: Santa Catarina  
CEP: 89196-000  
Country: Brazil  
Phone: 55 47 3563 9100  
Fax: 55 47 3563 9100  
E-mail: rohden@rohden.com.br

- 1.5 Emergency phone number

Phone: 55 47 3563 9100

## 2. HAZARD(S) IDENTIFICATION

### 2.1 WOOD DUST

OSHA PEL (Permissible Exposure Limit) TWA 5 mg/m<sup>3</sup>  
STEL (15 min) 10 mg/m<sup>3</sup>, (all soft and hard wood except Western red cedar)

ACGTH (Threshold Limit Value) TWA 5 mg/m<sup>3</sup> STEL (15 min) 10 mg/m<sup>3</sup>, (Softwoods)

Symbol R  
Risk R22 Harmful if swallowed.  
R36, 37 and 38 Irritating to eyes, skin and respiratory track.

### 2.2 GLUE

DORUS KL 255.

### 2.3 PINE SPECIFICATIONS

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Pinus genus belongs to the Pinaceae family, and corresponds to the largest genus of gymnosperms. Native of the northern hemisphere, the natural occurrence of this genus extends from the polar regions to the tropics, not naturally occurring in South America. The pine is adapted to different environmental realities, with species tolerant to frost and resistant to drought.

The species of this genus most planted in Brazil are: *Pinus taeda* and *Pinus elliottii*, and the states of the south of the country concentrate most of the plantations. The two species are very similar botanically. These are tall trees and their leaves aciculiformes type.

The main pine wood characteristics are: low density, light color, growth rings evident, moderate brightness, easy workability, cutting smoothness, fine texture and straight grain. The basic density of the two species, *elliottii* and *taeda* correspond to 0.400 g / cm<sup>3</sup> and 415 g / cm<sup>3</sup>, respectively. Thanks to their characteristics, pine wood is the raw material for the production of a wide variety of products, such as doors, frames, casings, etc.

## 2.4 OTHERS INGREDIENTS (not hazardous):

- Glass:** Tempered glass according to ANSI Z 97
- Plastic:** Plastic Polyolefin, polystyrene, polypropylene, polyester
- Steel:** 1020 Carbon steel (rails, fittings, screws, hinges)
- Paper:** Multi colored Labels printed.
- Seals:** Rubber profile, silicone.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

### 3.1 INGREDIENTS

#### *On product*

- Wood: Planted wood pine and eucalyptus.
- Glue: DORUS KL 255
- Seals: Rubber profile, silicone (If present).
- Glass: Tempered glass according to ABNT NBR 14698 / 16 CFR Part 1201 / EN 12150-1, EN 12150-2, EN 12600 (If present).
- Steel: Hinges components (If present).

#### *On packaging*

- Plastic: Polyethylene
- Paper: Colored Printed Labels.
- Paper: Hardboard.

### 3.2 DECLARATION OF INGREDIENTS

Contains no dangerous substances.

### 3.3 HAZARDOUS SUBSTANCE

DORUS KL 255 - Annex file 01.

## 4. FIRST AID MEASURES

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## 4.2 WOOD DUST

- 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 persists.
- Inhalation: If exposed to excessive levels, remove to fresh air. Get medical attention if irritation persists.
- Ingestion: Rinse mouth and drink water. Seek medical attention if necessary.

## 4.2 GLUE

Annex file 01

## 5. FIRE-FIGHTING MEASURES

### 5.1 WOOD DUST

Turn off all electricity.  
 Use water in abundance to extinguish fire.  
 Wear appropriate gear to fight and extinguish fire.  
 Insulate fire or  
 Cool surrounding areas or  
 Deprive source of oxygen

Fire releases fumes and gases that are toxic.

### 5.2 GLUE

Annex file 01

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 WOOD DUST

Remove to fresh air

Get immediate medical advice

Environmental issues – Wood dust is organic, does not harm environment and does not generate fumes or ash in substantial amounts.

Cleaning – Swipe, vacuum clean or flush water.

### 6.2 GLUE

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## 7. PRECAUTIONS FOR SAFE HANDLING AND USE (Handling and Storage)

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## 7.1 STEPS TO BE TAKEN IN CASE MATERIAL IS PROCESSED AND RELEASES DUST

The product does not releases significant dust in normal use. Does not offer risk if not processed.

If it processed, proceed as item 8.3.

## 7.2 WASTE DISPOSAL METHOD

Dispose in a landfill or incinerator in accordance with local, state and federal regulations.

## 7.3 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Provide adequate local and general exhaust ventilation, if processing the product.

## 8. CONTROL MEASURES (Exposure controls/personal protection)

### 8.1 CONTROL PARAMETERS E.G. OCCUPATIONAL EXPOSURE LIMIT VALUES OR BIOLOGICAL LIMIT VALUES

According 2.1.

### 8.2 APPROPRIATE ENGINEERING CONTROLS

Wear appropriate gear (PPE) to work in dusty environment such as wood dust mask and goggles.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT.

Respiratory protection (specify type): Use proper personal protector equipment (dust respirators).

Eye protection: Use proper personal protector equipment (safety glasses).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 WOOD DUST

Appearance:	Solid
Color:	Wood color
Odor:	Characteristic to pine
Relative Density:	Aprox. 0,5 g/cm <sup>3</sup>
Auto-ignition temperature:	400 F or above
Explosive limits:	40 g/m <sup>3</sup> of air (About 10.000 times OSHA limit)

### 9.2 GLUE

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## 10. STABILITY AND REACTIVITY

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## 10.1 WOOD DUST

Reactivity - NA  
 Chemical stability - NA  
 Possibility of hazardous reactions – NA  
 Conditions to avoid (e.g. static discharge, shock or vibration) - NA  
 Incompatible materials - NA  
 Hazardous decomposition products - NA

## 10.2 GLUE

Annex file 01

## 11. TOXICOLOGICAL INFORMATION

### 11.1 WOOD DUST

Eyes: The direct contact can cause eye irritation.  
 Skin: Repeated or prolonged skin contact may result in moderate irritation.  
 Inhalation: Wood dust may be irritant to the respiratory tract,  
 Ingestion: Ingestion may cause irritation,

### 11.2 GLUE

Annex file 01

## 12. ECOLOGICAL INFORMATION

### 12.1 WOOD DUST

Biodegradable product  
 Non toxic to environment

### 12.2 GLUE

Annex file 01

## 13. DISPOSAL CONSIDERATIONS

### 13.1 WOOD DUST

Dispose in a landfill or incinerator in accordance with local, state and federal regulations.

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## 14. TRANSPORT INFORMATION

### 14.1 WOOD DUST

NA

### 14.2 GLUE

Annex file 01

## 15. REGULATORY INFORMATION

### 15.1 WOOD DUST

NA

### 15.2 GLUE

Annex file 01

## 16. OTHER INFORMATIONS

### 16.1 WOOD DUST

Further information: this information is based on our current level of knowledge. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

### 16.2 GLUE

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## 17. BIBLIOGRAPHY

Wood dust - [http://www.wclib.org/pdfs/msds6\\_95.pdf](http://www.wclib.org/pdfs/msds6_95.pdf)

Wood dust - <http://www.weyerhaeuser.com/pdfs/msds/335.pdf>

Wood dust - [http://isites.harvard.edu/fs/docs/icb.topic993186.files/Wood-Dust\\_MSDS.pdf](http://isites.harvard.edu/fs/docs/icb.topic993186.files/Wood-Dust_MSDS.pdf)

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<http://www.ufpi.com/~media/Files/Literature/Product%20Literature/WoodDustMSDSEn>

[http://www.franklinpaint.com/2029f\\_3-27-14.pdf](http://www.franklinpaint.com/2029f_3-27-14.pdf)

<http://avogadro.chem.iastate.edu/MSDS/1-butanol.htm>

## 18. ANNEX 01

	<b>GHS SDS 001 - GLOBAL HARMONIZED SYSTEM SAFETY DATA SHEET CLEAR PINE DOOR SLAB</b>	Elaboração: 29/05/15
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## 18.1 GLUE DORUS KL 255



**FISPQ**

In accordance with NBR 14725:2009

### M SDS – MATERIAL SAFETY DATA SHEET

**Product: DORUS KL 255**

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#### 1. Chemical product and company identification

**Product Name:** DORUS KL 255  
**Internal product code identification:** 1220365, 1220367, e 1220368.  
**Manufacturer:** Henkel Ltda.  
**Address:** Av. José Alves de Oliveira, 1000, Distrito Industrial Faz Gran CEP 13213-105 Jundiaí-SP - Brasil  
**Phone:** (55 11) 3378-1900  
**Fax:** (55 11) 3378-1941  
**Emergency number:** (55 11) 3378-1960  
**E-mail:** [adesivos.industriais@br.henkel.com](mailto:adesivos.industriais@br.henkel.com)

#### 2. Hazards identification

**The product is not hazardous.**

##### Effects to human health:

The direct contact can cause eye irritation. Repeated or prolonged skin contact may result in moderate irritation. Vapor may be irritant to the respiratory tract. Ingestion may cause irritation of the gastrointestinal tract.

##### Environmental Effects:

Not toxic to the environment.

#### 3. Composition/information on ingredients

##### General chemical description:

Adhesive emulsion, water-based.

##### Base substances of preparation:

Polyvinilacetate Adhesive (PVA).

##### Declaration of ingredients:

Contains no dangerous substances.

#### 4. First-aid measures

##### General information:

In case of adverse health effects get medical advice.

##### After inhalation:

Move to fresh air, Get medical attention if irritation persists.

##### After skin contact:


Wash skin with soap and water. Change all contaminated clothing. If necessary, see a dermatologist.

##### After eye contact:

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes, get medical attention if necessary.

##### After ingestion:

Rinse mouth and throat. Treat symptomatically and supportively. Get medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

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### 5. Fire-fighting measures

**Suitable extinguishing media:**

All common extinguishing agents are suitable: water spray or fog, CO<sub>2</sub>, dry chemical; foam.

**Special protection equipment for fire-fighters:**

Wear self-contained breathing apparatus. Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. This is a water-based product and presents No particular fire or explosion hazard. Dry polymer film will burn.

**Special hazards by the product itself:**

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

### 6. Accidental release measures

**Personal precautions:**

Wear protective equipment. Danger of slipping on escaped product.

**Environmental precautions:**

Do not empty into drains / surface water / ground water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.

**Process for cleaning and take-up:**

Remove with liquid-absorbing material (sand, peat, sawdust). Sweep up and shovel into waste drums. Wash the spillage area with water.

### 7. Handling and storage

**Handling:**

When using, do not eat, drink or smoke.

**Storage:**

Avoid extreme temperatures. Protect from freezing. Keep container tightly sealed and store in a frost free place. Storage in temperatures between: 5 - 30<sup>o</sup>C.

This material should not be spilled, discharged or flushed into sewers or public waterways. Product contains low level of organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated area. Avoid breathing vapors.

Protect against contamination.

### 8. Exposure controls/ personal protection

**Components with specific control parameters for workplace:**

None.

**Respiratory protection:**


None required under normal handling conditions. Suitable breathing mask when there is inadequate ventilation.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Please, note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Wear safety glasses with side shields.

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**Body protection:**

Wear suitable protective clothing. Remove contaminated clothing and launder before reuse.

**General protection and hygiene measures:**

Do not eat, drink or smoke while working. Wash hands before eating, drinking or using toilet facilities.

**Ventilation Requirements:**

Provide local exhaust ventilation system to meet published exposure limits.

### 9. Physical and chemical properties

**General characteristics**

Delivery state:	Emulsion
State:	liquid
Odor:	characteristic
Color(s):	white
pH Value (25°C; conc.: 100% product):	3,5 to 4,5
Boiling point:	>100°C
Flash point:	aqueous preparation
Density (20°C):	Aprox. 1,05 g/cm <sup>3</sup>
Viscosity:	3500 – 5500 cps (25°C)
Solubility (qualitative):	unlimited soluble (20°C, solvent: water)
Solids:	42 - 47%
Freezing point:	< 5°C

### 10. Stability and reactivity:

**Conditions to avoid:**

No decomposition if used according to specifications.

**Dangerous decomposition products:**

 In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) are released.

**Stability:**

Stable

**Stability detail:**

Product contains low level of organic volatiles which may be emitted or released in application processes involving the use of heat. Vent all ovens and process vessels to the outside atmosphere.

### 11. Toxicological information:

**General toxicological information:**

No evidences of adverse effects in human beings if the product is handled and used properly.

**Effects of chronic exposure:**

Product contains residual vinyl acetate, an IARC 2B possible human carcinogen. Vinyl acetate vapors have been shown to cause tumors in the respiratory tract of laboratory animals exposed to 600ppm over a lifetime; 200ppm causes irritation; 50ppm produces no observable effect. There is no evidence of adverse effects to humans exposed to levels at or below the ACGIH TLV.

### 12. Ecological information:

**General ecological information:**

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Do not empty into drains, soil or bodies of water.

### 13. Disposal considerations:

#### Waste disposal method:

Discard in industrial dike or incinerate. Disposal should be in accordance with local, state or national legislation.

#### Empty container warnings:

Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

### 14. Transport information:

#### This section provided for general information only.

For more complete transportation regulatory information please refer to the shipping documents accompanying the shipment of this product.

**U.N. number (S.I.N.):** Not Applicable

**U.N. class, packing group:** Not Applicable

### 15. Regulations – classification and identification:

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

There is no Brazilian specific recommendation to this product.

### 16. Other information:

Further information: this information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

From the date of the issue of this document on the name of the product becomes DORUS KL 255.

#### Bibliographic References:

MICROMEDEX, Inc. ChemKnowledge™ System Plus Ariel GlobalView™, Vol.48.

Industrial Surfactants Electronic Handbook, Synapse Information Resources Inc., 2000 Edition.

Handbook of Toxic and Hazardous Chemicals and Carcinogens – M. Sittig