



***** MATERIAL SAFETY DATA SHEET *****

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 40-0562
PRODUCT NAME: DORUS KL 0562
adhesive for adhering a veneer
FORMER NAME: KWIK KLAMP 40-0562
COMPANY ADDRESS: Henkel Corporation
10 Finderne Avenue
Bridgewater, NJ 08807
USA
EMERGENCY PHONES:
MEDICAL: 860-571-5100 (24 hours)
TRANSPORT: CHEMTREC: 800-424-9300 (24 hours)
CHEMTREC International: 703-527-3887 (call collect)
Customer Service: 888-480-6889

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Possible birth defect hazard.
White Liquid Slight Odor

EYE: Slight/mild irritant.
SKIN CONTACT: Repeated or prolonged skin contact may result in mild irritation.
INHALATION: Vapor or aerosol, if generated, can cause irritation of the eyes, nose and respiratory tract.
INGESTION: Ingestion may cause irritation of the gastrointestinal tract. Low oral toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Water Solution of Soluble Polymers

COMPONENT	CAS NUMBER	CONCENTRATION (% by weight)
Boric acid	10043-35-3	0.1 - 1

4. FIRST-AID MEASURES

EYE: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
SKIN CONTACT: Wash skin with soap and water.
INHALATION: Remove to fresh air. Get medical attention if irritation persists.
INGESTION: Treat symptomatically and supportively. Get medical attention.

5. FIREFIGHTING MEASURES

AUTOIGNITION	Not available
FLASH POINT	> 212 °F
EXTINGUISHING MEDIA	Water spray or fog, CO2, dry chemical; Foam
SPECIAL FIREFIGHTING PROCEDURES	Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
FIRE & EXPLOSION HAZARDS	This is a water-based product and presents no particular fire or explosion hazard.
HAZARDOUS COMBUSTION PRODUCTS	Carbon monoxide, carbon dioxide, unknown hydrocarbons.
LOWER EXPLOSION LIMIT (%)	Not applicable
UPPER EXPLOSION LIMIT (%)	Not applicable

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES	Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE	40 - 100 °F
HANDLING/STORAGE	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.
SENSITIVITY TO STATIC ELECTRICITY	No
SENSITIVITY TO MECHANICAL IMPACT	No
OTHER PRECAUTIONS	Avoid extreme temperatures. Protect from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS		
	<u>ACGIH</u>	<u>OSHA</u>	<u>Mfg Working Standard</u>
Boric acid	ACGIH-TWA: 10 mg/m3.	OSHA-PEL: 15 mg/m3 OSHA-PEL Respirable: 5 mg/m3	

EXPOSURE LIMIT NOTES	Mineral oil mist exposure limits only apply when oil mists could be generated, such as spraying or use at elevated temperatures.
VENTILATION REQUIREMENTS	None required if good ventilation is maintained.
EYE PROTECTION REQUIREMENTS	Wear safety glasses with side shields.
GLOVE REQUIREMENTS	Gloves are recommended due to possible irritation.
CLOTHING REQUIREMENTS	Wear protective equipment to comply with good occupational hygiene practice.

CHANGE/REMOVAL OF CLOTHING	Remove contaminated clothing and launder before reuse.
WASH REQUIREMENTS	Wash before eating, drinking, or using toilet facilities.
RESPIRATOR REQUIREMENTS	None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritating.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE	Mixture
PHYSICAL FORM	Liquid
COLOR	White
ODOR	Slight
ODOR THRESHOLD	Not available
PH AS IS	5
OXIDIZING PROPERTIES	Not applicable
BOILING POINT	> 212 °F
MELTING/FREEZING POINT	< 40 °F
SOLUBILITY IN WATER	Miscible
PARTITION COEFFICIENT (n-octanol/water)	Not applicable
SPECIFIC GRAVITY (WATER=1)	1.09
BULK DENSITY	9.2 lb/gal
EVAPORATION RATE	1 (Water = 1)
VAPOR PRESSURE (mmHg)	17.5 @ 20°C
VAPOR DENSITY (air = 1)	0.62
VOLATILES	Approximately 55 %/wt
VOLATILE ORGANIC COMPOUNDS	Estimated to be < 0.009 lb/gal
AUTOIGNITION	Not available
FLASH POINT	> 212 °F

10. STABILITY AND REACTIVITY

STABILITY	Stable
MATERIALS TO AVOID	Materials that react with water
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide, unknown hydrocarbons.
HAZARDOUS POLYMERIZATION CONDITIONS	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY	Eye Contact; Skin Contact; Inhalation
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CARCINOGEN	<u>IARC</u> (group)	<u>NTP</u>	<u>OSHA Substance</u> <u>Specific Regulation</u>
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COMPONENT
There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

PRODUCT TOXICOLOGY PRODUCT INFORMATION

Unlikely to cause harmful effects under normal conditions of handling and use.

ACUTE (SHORT TERM) EFFECTS OF EXPOSURE

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE

The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.

TARGET ORGANS

Not applicable.

POSSIBLE BIRTH DEFECT HAZARD

Yes

COMPONENT
Boric acid

ORAL TOXICITY
Oral LD50: Rat > 3500 mg/kg
Oral LD50: Rat 2660 mg/kg
Oral LD50: Mouse 3450 mg/kg

NOTES ON ORAL TOXICITY

Moderately toxic. Ingestion may cause irritation of the gastrointestinal tract. Exposure and/or contact with this chemical may cause reproductive or fetotoxic effects. Exposure and/or contact with this chemical may cause reproductive or fetotoxic effects.

COMPONENT
Boric acid

DERMAL TOXICITY
Dermal LD50: Rabbit > 2000 mg/kg

NOTES ON DERMAL TOXICITY

Repeated or prolonged skin contact may result in moderate irritation.

COMPONENT
Boric acid

INHALATION TOXICITY

NOTES ON INHALATION TOXICITY

Dust is irritant to the respiratory tract.

COMPONENT
Boric acid

NOTES ON EYE IRRITATION

Slight/mild irritant.

12. ECOLOGICAL INFORMATION

POTENTIAL TO BIOACCUMULATE
AQUATIC TOXICITY

Unknown.
Not tested

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS

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. TRANSPORTATION INFORMATION

This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION

Not regulated

PRODUCT NUMBER: 40-0562
IDH# 1218250

ISSUE DATE: 12-February-2010

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

15. REGULATORY INFORMATION

USA

TSCA

This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

SARA - Section 313 (Superfund Amendments and Reauthorization Act of 1986 - 40CFR 372)

CAS NUMBER

CONCENTRATION
(% by weight)

Contains no substances at or above the reporting threshold under Section 313.

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts.

COMPONENT

CAS NUMBER

Acetaldehyde

75-07-0

16. OTHER INFORMATION

HMIS® Hazard Ratings

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual.

When two ratings are provided for Health, the first represents the material 'as supplied', and the second represents the material 'in use'.

* = chronic health hazard

HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

Health

1

Flammability

0

Reactivity

0

RECOMMENDED USE

Adhesive

ISSUE DATE:

12-February-2010

PREPARED BY:

Regulatory Affairs

CHANGES SINCE PREVIOUS ISSUE

Section 1

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The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.